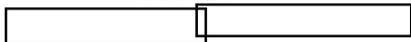


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25X1G

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PHOTOGRAPHIC INTERPRETATION REPORT



RADIO COMMUNICATIONS
FACILITIES
NORTH VIETNAM

NPIC/R-97/69
NOVEMBER 1969

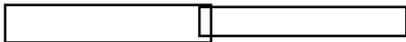
Declass Review by NIMA/DOD

GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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INTRODUCTION

This report is designed to present an overall view of the radio communications facilities in North Vietnam. It is not all-inclusive, since the source of information is limited primarily to photography. As new facilities are identified, or as changes occur in previously reported facilities, periodic supplements will be disseminated to maintain a current data base on North Vietnam.

The communications facilities in this report are divided into two categories: "A", Radio Stations, and "B", Weather Stations. The telephone/telegraph open wire network is not covered in this report since the extreme variation in density between urban and rural areas presents the almost insolvable problems of presentation and identification. Also, the complete network cannot be depicted without expanding the scope of the report to include China, Laos, and South Vietnam.

Category A. Radio Stations. These are permanent radio stations which provide point-to-point and general broadcast communications.

Category B. Weather Stations. These stations are not communications facilities per se; however, they are included in this report because a communications capability apparently exists at each station and could be used to transmit data other than weather information.

A table of contents and a small-scale plot map are included for each category. In category A, a large-scale plot map and a photo are provided for each item. The items in category B are generally standard in layout, and, with the exception of representative photos, will be depicted only on a plot map.

The type of photography utilized in this report generally precludes accurate mensuration; therefore, all dimensions given are necessarily approximate.

The nature of these installations and the type of photographic coverage make it extremely difficult to determine the exact extent of bomb damage to the facilities; therefore, all bomb damage assessment (BDA) is necessarily an estimate.

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BACKGROUND

Telecommunications facilities in North Vietnam consist of a telephone/telegraph open wire line network connecting principal cities and towns, point-to-point radio communications facilities, and radio broadcasting facilities. These facilities are owned and operated by the government and are used primarily for administrative purposes. Interurban communications are provided by open wire lines and high-frequency radio communications facilities. In recent years wire has replaced radio as the primary means of communication in the urban areas; however, radio communications facilities are still used extensively for communication with remote areas not served by wire lines and as a supplementary means of communication with the provincial capitals.

A development program, begun in 1955, has resulted in the extension and modernization of the open wire lines. Telephone and general telegraph services are provided, and service is good in most of the major cities, but varies from fair-to-poor elsewhere.

Telephone and telegraph lines radiate from Ha Noi to all provincial capitals and to several other cities. The pattern of the wire system corresponds to the land transportation network and generally follows the alignment used under French administration.

International communications are provided by wire lines to Communist China and Laos and by direct radio communication to Communist China, the Soviet Union, and several other countries. Ha Noi is the main international communications center. Radio Ha Noi, also known as the "Voice of Vietnam," is the only known radio broadcasting station. An extensive wired (government-controlled reception) broadcasting system provides service to selected centers located throughout the country.

All telecommunications facilities are operated by the Ministry of Communications and Transportation, through the Directorate of Posts, Telephones, and Telegraphs (DPTT). Radio Ha Noi is subordinate to the Radio Diffusion Board, an independent organization of the government attached to the Office of the President. All broadcasting policies are established and controlled by the Propaganda and Training Committee of the Communist Party Politburo.

Special telecommunications systems are operated by the Ministry of National Defense, the Communist Party, the railroads, meteorological services, merchant shipping, civil aeronautical organizations, and the diplomatic service. The Ministry of National Defense System is the largest and includes both open wire lines and radio communications facilities. The Communist Party operates a radio communications network which is almost as extensive.

North Vietnam has a potential capability for the production of telecommunications and electronic equipment because of abundant mineral reserves; however, most telecommunications equipment and material are imported from Communist China, [redacted] Hungary, or the Soviet Union. Under the five-year plan of 1961-1965, the government planned to extend and improve the telecommunications system by installing a large radio relay network; however, to date there is little evidence of any improvements to the radio communications system.

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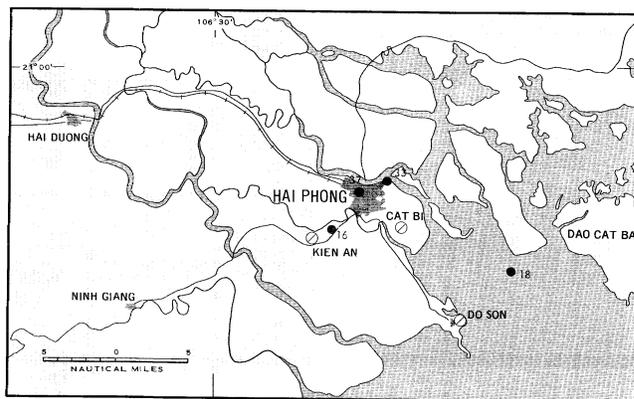
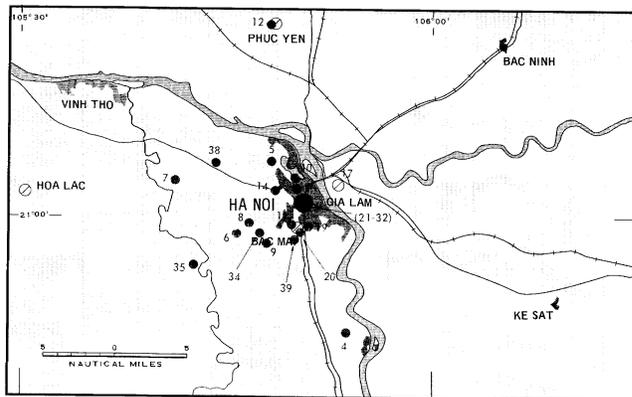
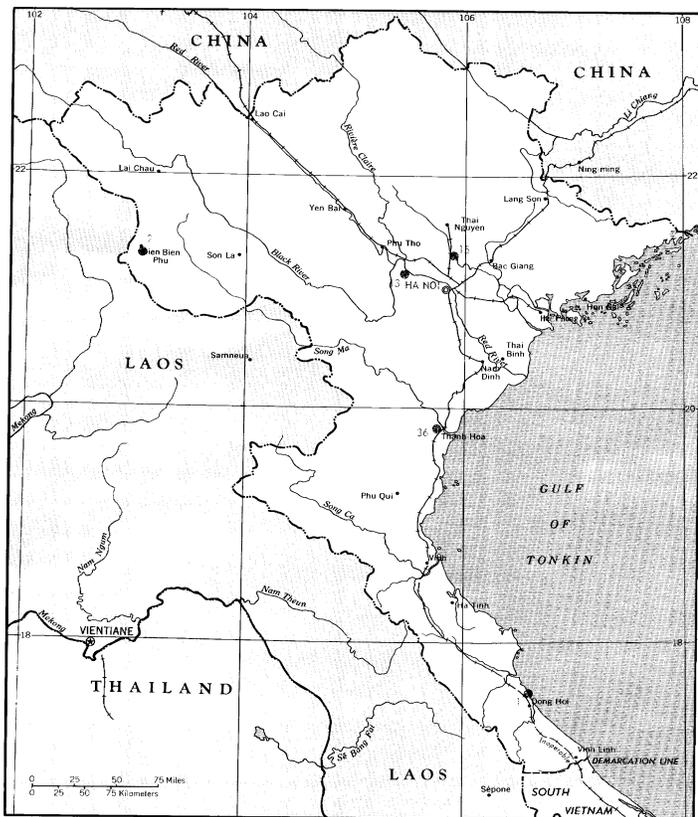


TABLE OF CONTENTS CATEGORY A
RADIO COMMUNICATIONS FACILITIES

MAP KEY	INSTALLATION NAME	BE NUMBER	EFFECTIVE PAGE	MAP KEY	INSTALLATION NAME	BE NUMBER	EFFECTIVE PAGE
1	Chanh Hoa HF/DF and Support Communications Facility		A-3 (Original)	20	Hanoi Radio Communications Station Bac Mai East	25X1D	A-41 (Original)
2	Dien Bien Phu HF/DF and Support Communications Facility		A-5 (Original)	21	Hanoi Radio Communications Station No. 1		A-43 (Original)
3	Mong Cai HF/DF and HF Support Communications Facility		A-7 (Original)	22	Hanoi Radio Communications Station No. 2		A-45 (Original)
4	Hanoi Radio Receiver Phu Cuc		A-9 (Original)	23	Hanoi Radio Communications Station No. 3		A-47 (Original)
5	Hanoi Radio Communications Station NW		A-11 (Original)	24	Hanoi Radio Communications Station No. 4		A-49 (Original)
6	Hanoi International Radio Communications Dal Mu		A-13 (Original)	25	Hanoi Radio Communications Station No. 5		A-51 (Original)
7	Hanoi International Radio Communications Receiving Station Son Dong		A-15 (Original)	26	Hanoi Radio Communications Station No. 6		A-53 (Original)
8	Hanoi Radio Broadcasting Station Me Tri		A-17 (Original)	27	Hanoi Radio Communications Station No. 7		A-55 (Original)
9	Hanoi Radio Communications Station Ha Dong No. 7		A-19 (Original)	28	Hanoi Radio Communications Station No. 8		A-57 (Original)
10	Hanoi Radio Communications Station NW Thuy Khue		A-21 (Original)	29	Hanoi Radio Communications Station No. 9		A-59 (Original)
11	Hanoi Radio Communications Station Bac Mai		A-23 (Original)	30	Hanoi Radio Communications Station No. 10		A-61 (Original)
12	Phuc Yen Radio Communications Station No. 2		A-25 (Original)	31	Hanoi Radio Communications Station No. 11		A-63 (Original)
13	Ngai Son Radio Communications Station		A-27 (Original)	32	Hanoi Radio Communications Station Military		A-65 (Original)
14	Hanoi Radio Communications Station Yen Hoa		A-29 (Original)	33	Haiphong Radio Communications Station		A-67 (Original)
15	Lang Truc Radio Communications Transmitter		A-31 (Original)	34	Haiphong Radio Communications Station Chue Son		A-69 (Original)
16	Haiphong Radio Communications Station Kien An		A-33 (Original)	35	Ha Dong Radio Communications Station		A-71 (Original)
17	Hanoi Communications Facility Ba Dinh		A-35 (Original)	36	Thanh Hoa HF Communications Station		A-73 (Original)
18	Cua Nam Trieu Radio Communications Station Lighthouse		A-37 (Original)	37	Haiphong Radio Communications Station		A-75 (Original)
19	Hanoi Communications Facility South		A-39 (Original)	38	Dan Hol Army Barracks South Radio Communications Station		A-77 (Original)
				39	Hanoi/Bac Mai Radio Communications Station South		A-79 (Original)

25X1D

A-1

SECRET

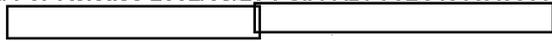
25X1C

25X1

SECRET

REF/R-97/69

25X1

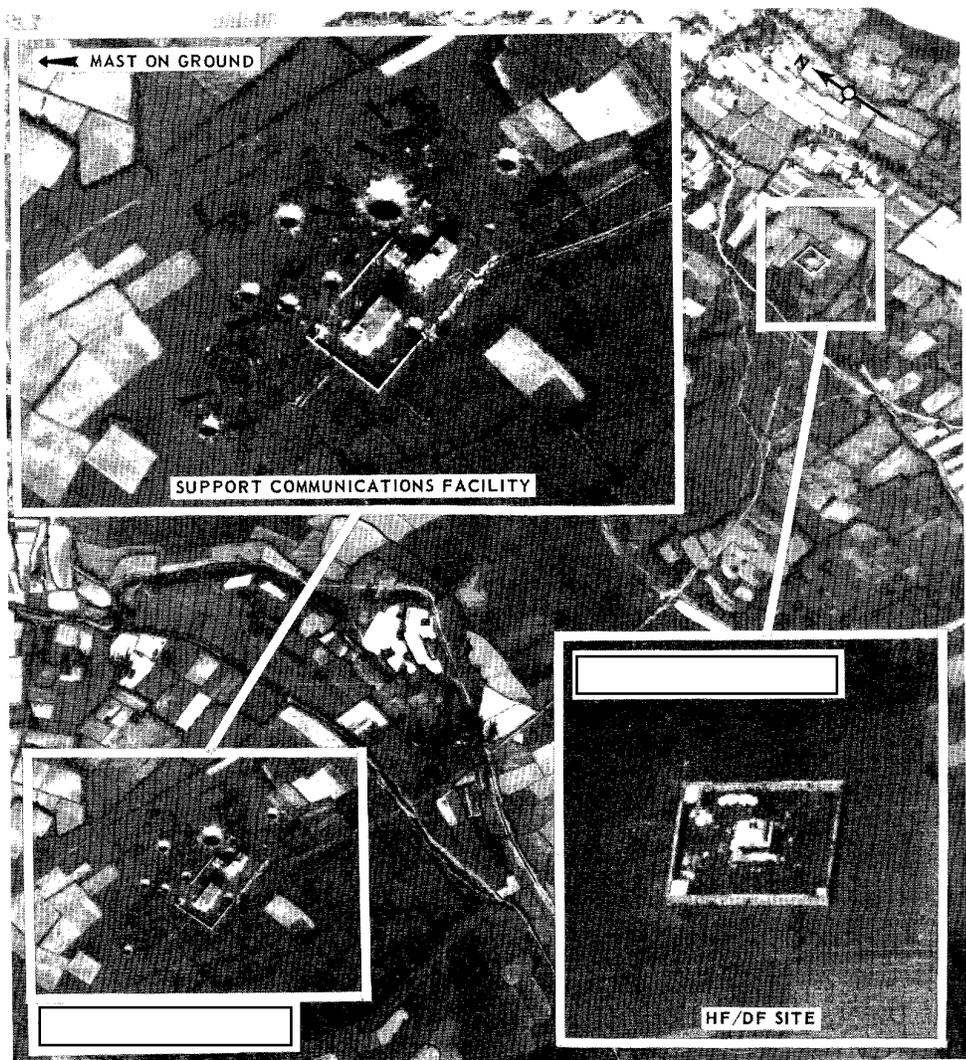
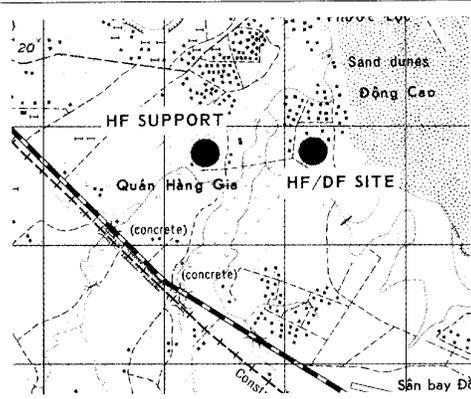


25X1C

INSTALLATION OR ACTIVITY NAME				COUNTRY	
Chanh Hoa HF/DF and Support Communications Facility				VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	NIETR NO.
XE682388	17-31-50N 106-35-05E			None	None
MAP REFERENCE					
25X1A					
AMS. Series L7014, Sheet 6344 III, scale 1:50,000					
LATEST IMAGERY USED			NEGATION DATE (if required)		
25X1D			NA		

The facility, located 2 nautical miles east-southeast of Chanh Hoa, consists of an HF/DF site and a former support communications facility. The HF/DF site consists of a small wall-secured building with anchor positions for eight antenna masts. The former communications facility [redacted] has been severely damaged by bombing and no attempt has been made to repair it.

25X1A



25X1D

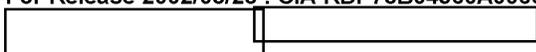
A-3

25X1D

SECRET

25X1C

25X1



25X1

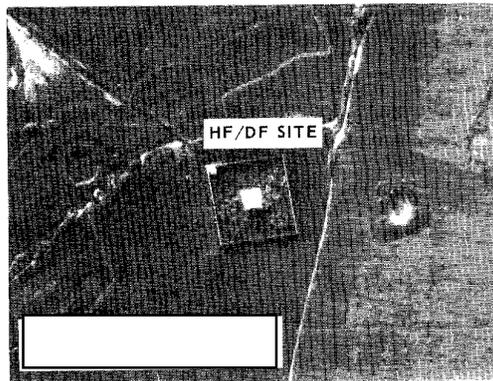
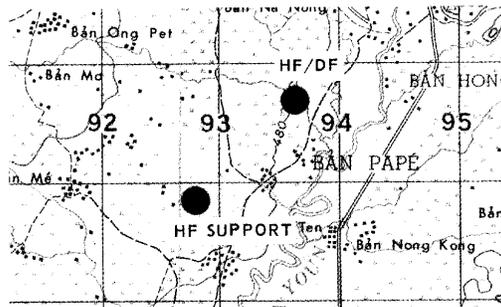
25X1C

INSTALLATION OR ACTIVITY NAME Dien Bien Phu HF/DF and Support Communications Facility					COUNTRY VN	
UTM COORDINATES TJ935646	GEOGRAPHIC COORDINATES 21-22-24N 103-00-30E	CATEGORY	BE NUMBER	COMIREX NO. None	NIETS NO. None	
MAP REFERENCE 25X1A						
AMS. Series L7014, Sheet 5651 IV, scale 1:50,000						
LATEST IMAGERY USED 25X1D			NEGATION DATE (if required) NA			

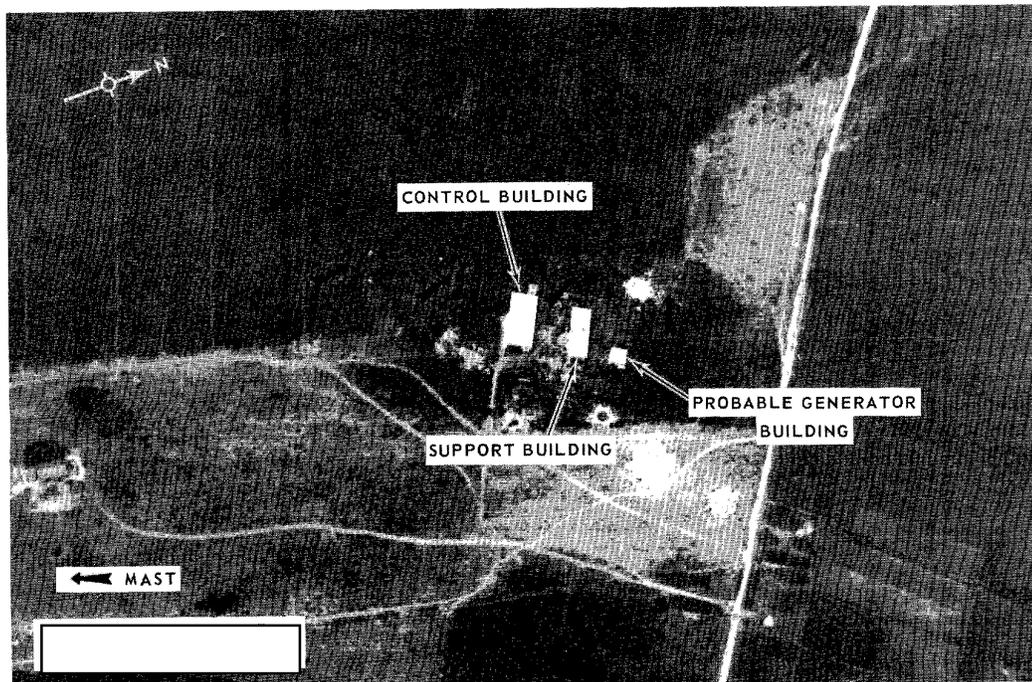
The facility, located 0.7 nautical miles (nm) southwest of Dien Bien Phu, consists of an HF/DF site and a support communications facility. The wall-secured HF/DF site contains one control building and one small support building.

The wall-secured HF support communications facility 0.5 nm southwest of the HF/DF site consists of one control, one support, and one probable generator building. Two horizontal dipole antennas are located immediately outside the security wall.

The HF/DF site and the support communications facility are connected by a trail and a probable cable scar.



25X1D



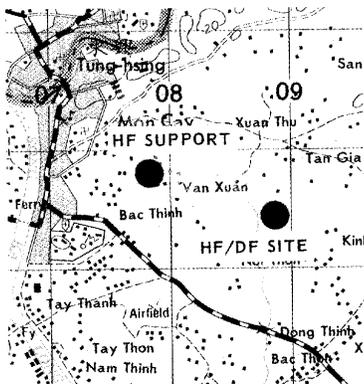
25X1D

25X1

INSTALLATION OR ACTIVITY NAME				COUNTRY	
Mong Cai HF/DF and Support Communications Facility				VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMREX NO.	
ZJ089835	21-31-45N 107-58-59			None	
MAP REFERENCE				25X1A	
AMS. Series L781, Sheet 6519 I, scale 1:50,000					
LATEST IMAGERY USED			NEGATION DATE (if required)		
25X1D			NA		

The facility, located 1 nautical mile (nm) southeast of Mong Cai, consists of an HF/DF site and a support communications facility. The wall-secured HF/DF site contains one control and two small support buildings. Anchor positions for eight antennas surround the control building.

The wall-secured HF support communications facility is located 0.5 nm west-northwest of the HF/DF site and consists of one control, one support and one probable generator building. Two horizontal dipole antennas are located immediately outside the security wall.



A-7

25X1A

25X1A

25X1D

25X1D

INSTALLATION OR ACTIVITY NAME				COUNTRY	
Hanoi Radio Receiver Phu Coc				VN	

UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	
WJ926066	20-51-36N 105-53-26E			None	

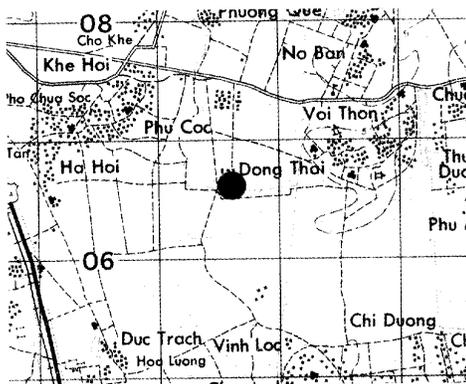
MAP REFERENCE
AMS. Series L7014, Sheet 6150 I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

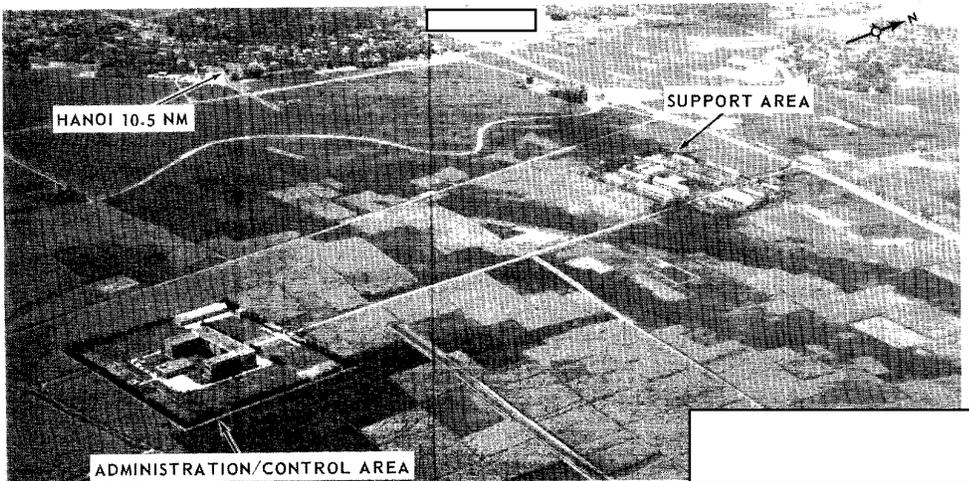
The facility, located 10.5 nautical miles south-southeast of Hanoi, consists of an administration/control area surrounded by an antenna field with six F151B0NE antennas, six horizontal dipole antennas, and eight vee antennas.

The administration/control area is secured and contains one multiwing administration building, two large buildings, and four small buildings.

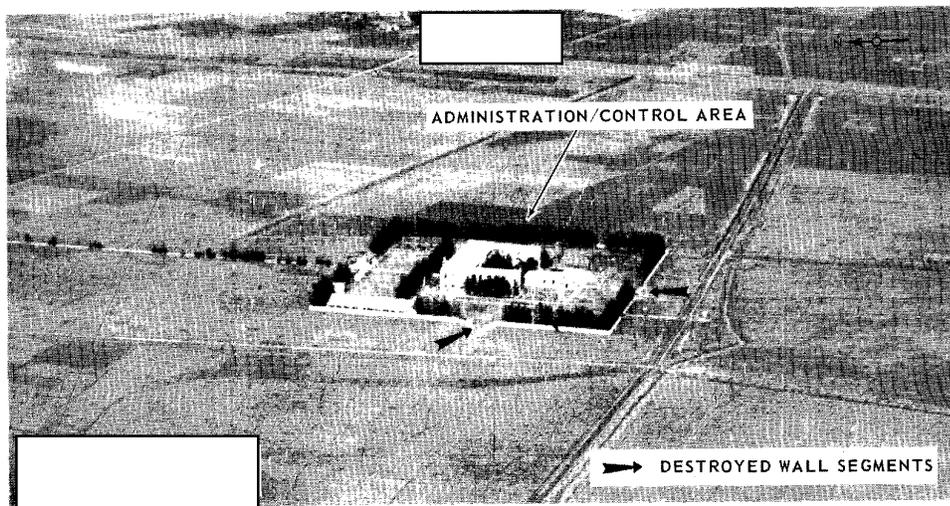
A secured support area contains four barracks, one auditorium, one messhall, eight support buildings, and five small buildings.



25X1D

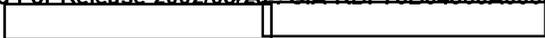


25X1



25X1

25X1

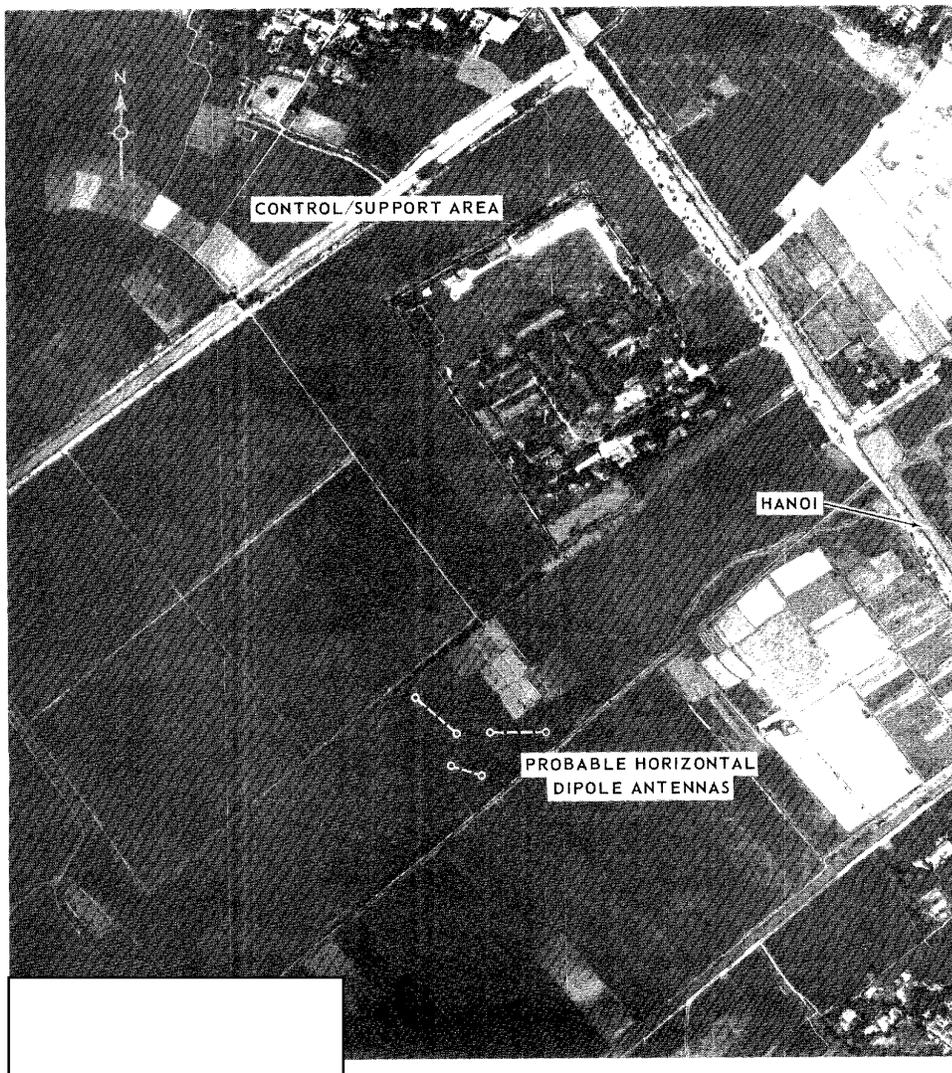
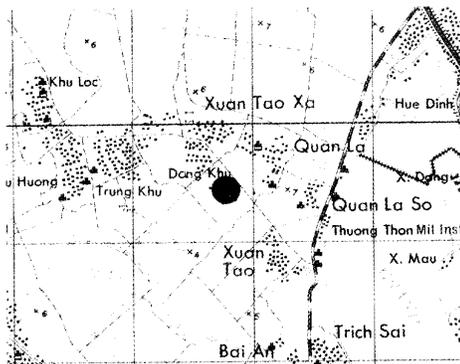


25X1C

INSTALLATION OR ACTIVITY NAME				COUNTRY	
Hanoi Radio Communications Station Northwest				VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	
WT837294	21-03-49N 105-48-14E			None	
MAP REFERENCE		25X1A		25X1A	
AMS. Series L7014, Sheet G.51 II, scale 1:50,000					
LATEST IMAGERY USED		NEGATION DATE (if required)			
		NA			

The facility, located 3.6 nautical miles northwest of Hanoi, consists of three probable horizontal dipole antennas.

A secured control/support area immediately north of the antenna field contains approximately 20 barracks/support buildings.



25X1



A-11

25X1



INSTALLATION OR ACTIVITY NAME		COUNTRY	
Hanoi International Radio Communications Receiving Station Son Dong		VR	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
WJY18275	21-02-57N 105-41-30E	Nova	
MAP REFERENCE			

25X1A

25X1A

AMS, Series 17091, Sheet 6151 III, scale 1:50,000

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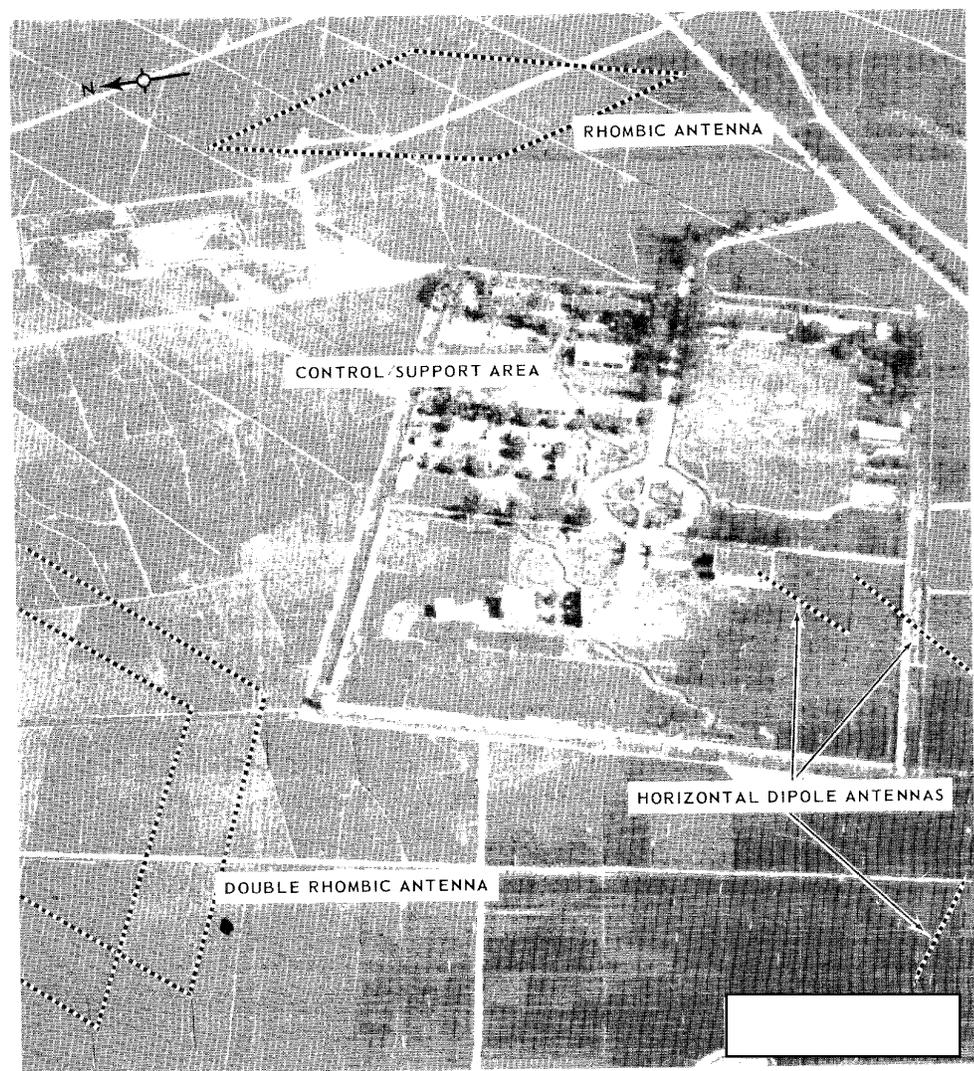
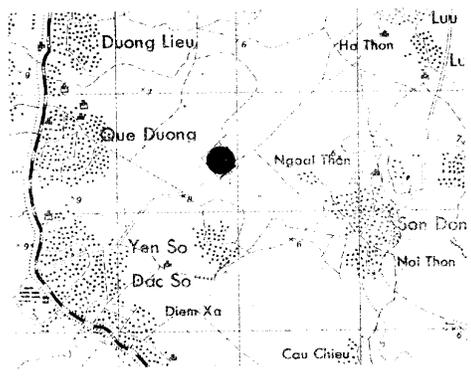
25X1D

NEGATION DATE (if required)

NA

The facility, located 6.6 nautical miles west-northwest of Hanoi, consists of a control/support area surrounded by an antenna field with three large and two small double rhombic antennas arranged in pairs for day/night operations, two other double rhombic, seven single rhombic, and six horizontal dipoles.

The control/support area is secured by a fence and contains 17 support buildings.



25X1D

A-15

INSTALLATION OR ACTIVITY NAME

Hanoi Radio Broadcasting Station Me Tri

25X1A

COUNTRY

VIET

25X1A

UTM COORDINATES

GEOGRAPHIC COORDINATES

COMIREX NO.

MAP REFERENCE

WJ819217 20-59-17N 105-47-17E

None

AMS. Series L7014, Sheet 630 I, scale 1:50,000

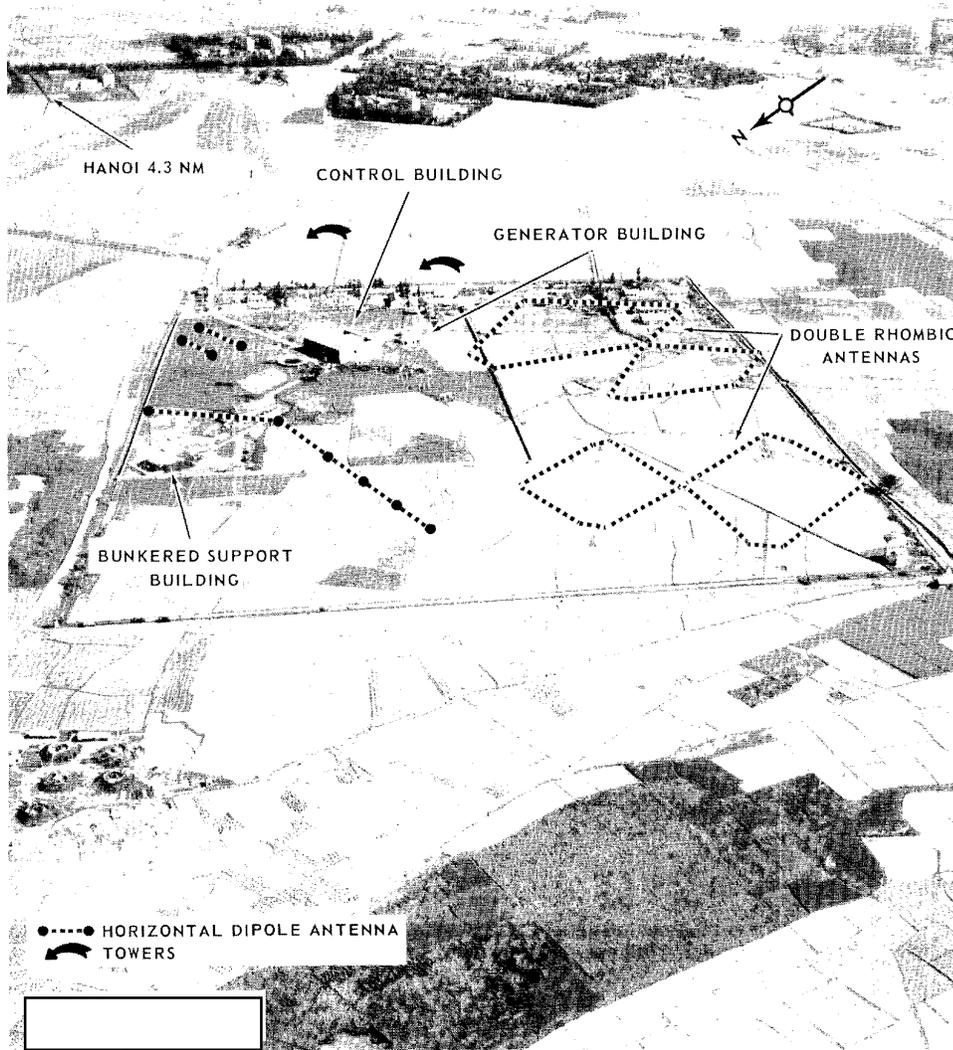
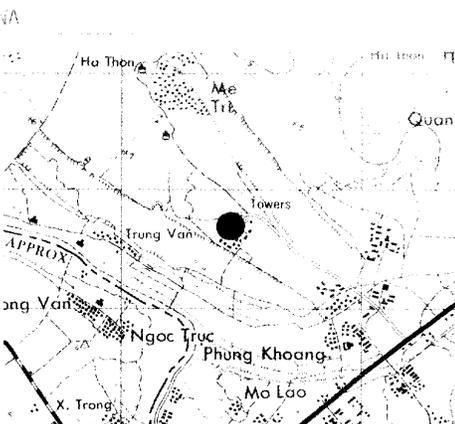
LATEST IMAGERY USED

NEGATION DATE (if required)

25X1D

The facility, located 4.3 nautical miles southwest of Hanoi, consists of two vertical radiators, four double rhombic antennas in day/night pairs, seven horizontal dipole antennas, a control building, a generator building, a bunkered support building, and a cooling pond.

The two lattice towers, now used as vertical radiators, were probably initially constructed to support a horizontal curtain array.



25X1D

A-17

SECRET

25X1

[Redacted]

25X1C

INSTALLATION OR ACTIVITY NAME

COUNTRY

Radio Relay Communication Station Hanoi No. 7

VI. 25X1A

UTM COORDINATES

GEOGRAPHIC COORDINATES

CATEGORY

REF NUMBER

COMINT NO.

Notes

[Redacted]

MAP REFERENCE

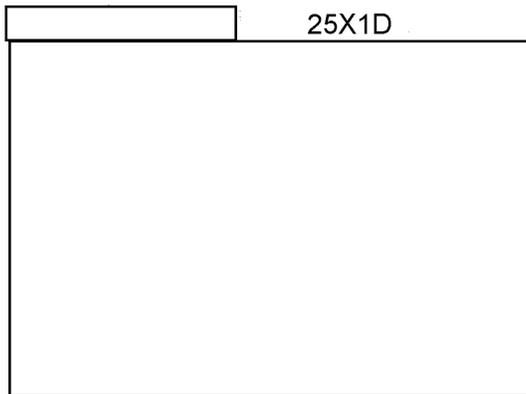
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AMS: 50000 1:75000 Sheet: 6144 I, Contour: 1:250,000

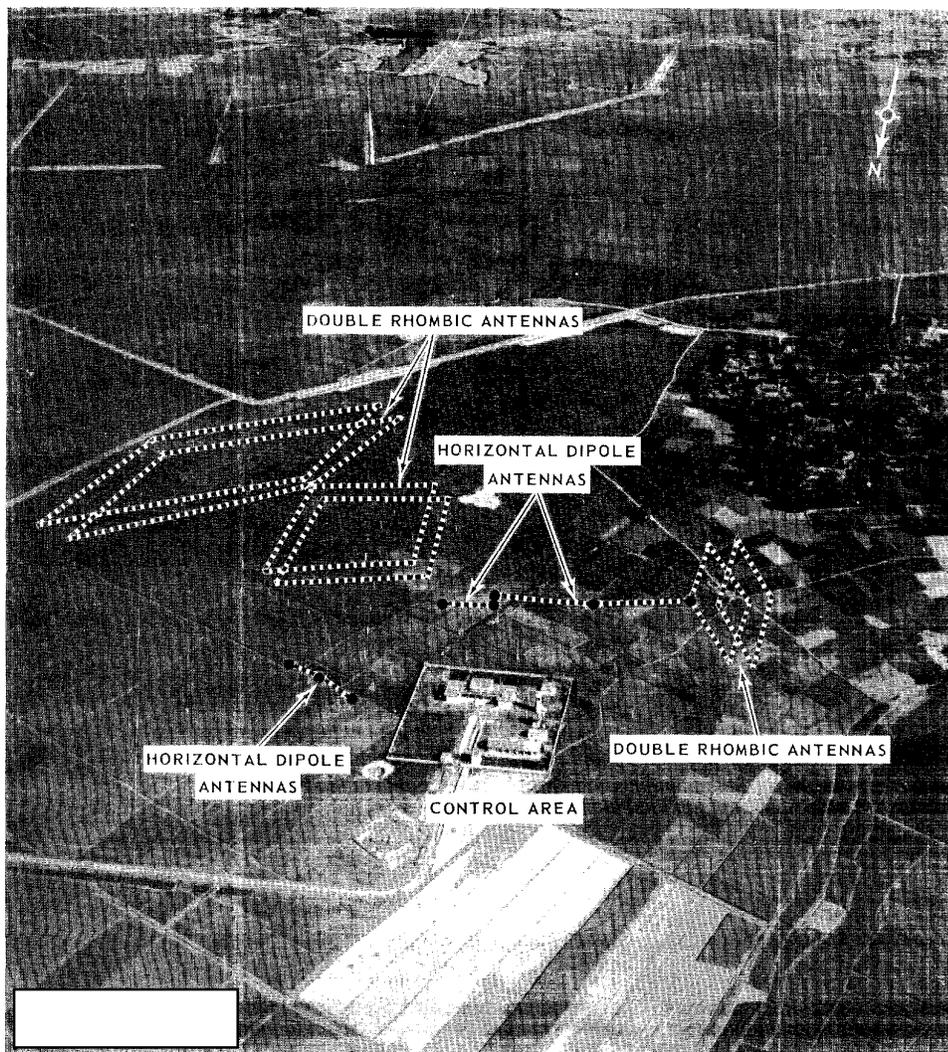
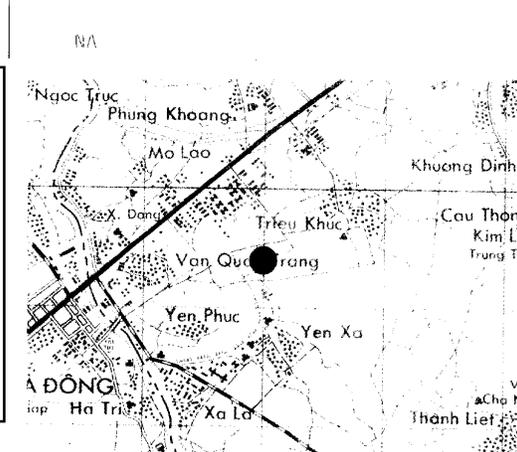
LATEST IMAGERY USED

NEGATION DATE (if required)

ILLEGIB



25X1D



25X1D

A-19

SECRET

25X1

[Redacted]

25X1C

INSTALLATION OR ACTIVITY NAME

United Radio Communications Station KW Phay Khue

COUNTRY

VN

UTM COORDINATES

WJ861267

GEOGRAPHIC COORDINATES

21-02-26N 105-49-56E

25X1A

MAP REFERENCE

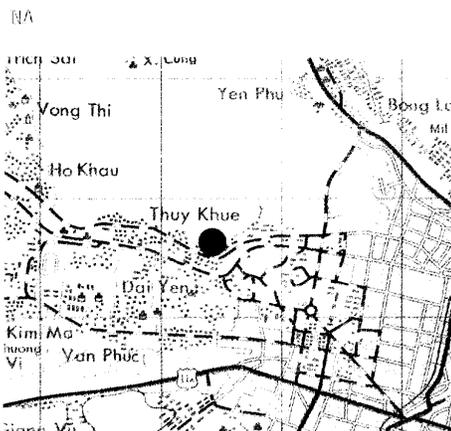
AMS - Series T/001, Sheet 614 II, scale 1:50,000

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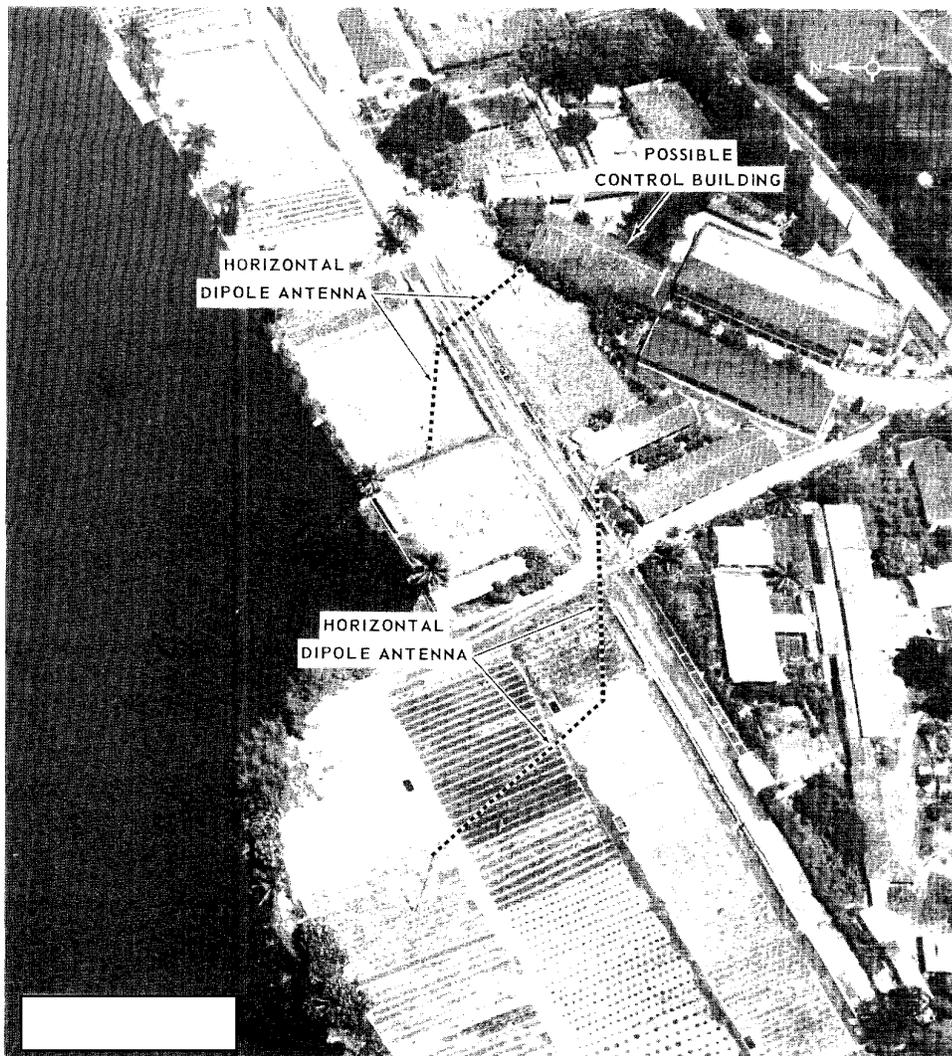
NEGATION DATE (if required)

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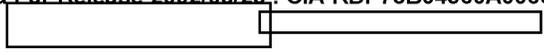


ILLEGIB



25X1D

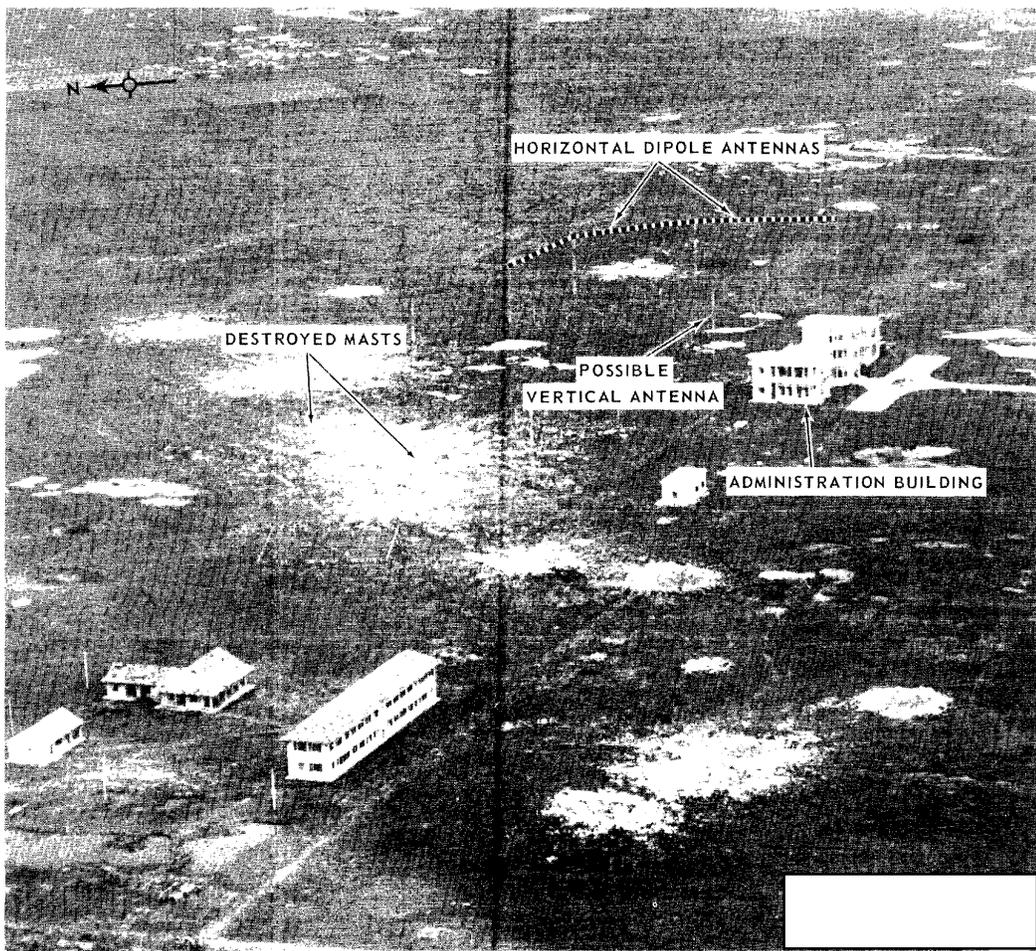
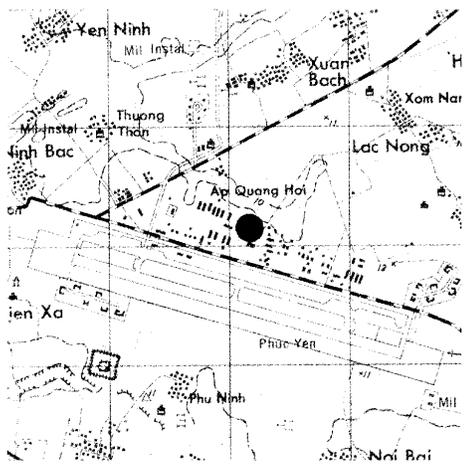
A 01



INSTALLATION OR ACTIVITY NAME Phue Yen Radio Communications Station No. 2		25X1A		COUNTRY VI
UTM COORDINATES WT842471	GEOGRAPHIC COORDINATES 21-43-30N 105-48-40E	COMIREX NO. None	NIETR NO. None	
MAP REFERENCE AMG. Series T/014, Sheet 6151 II, scale 1:50,000		LATEST IMAGERY USED 25X1D		
		NEGATION DATE (if required) NA		

The facility, located adjacent to the Phue Yen Airfield, originally contained one vee antenna, five horizontal dipoles, and one possible vertical antenna with the control equipment probable housed in the airfield administration building.

This facility was subjected to air strikes, which resulted in minor damage to the administration building and destruction of two antenna masts. There is no evidence of repair. Three horizontal dipoles and one possible vertical antenna remain.

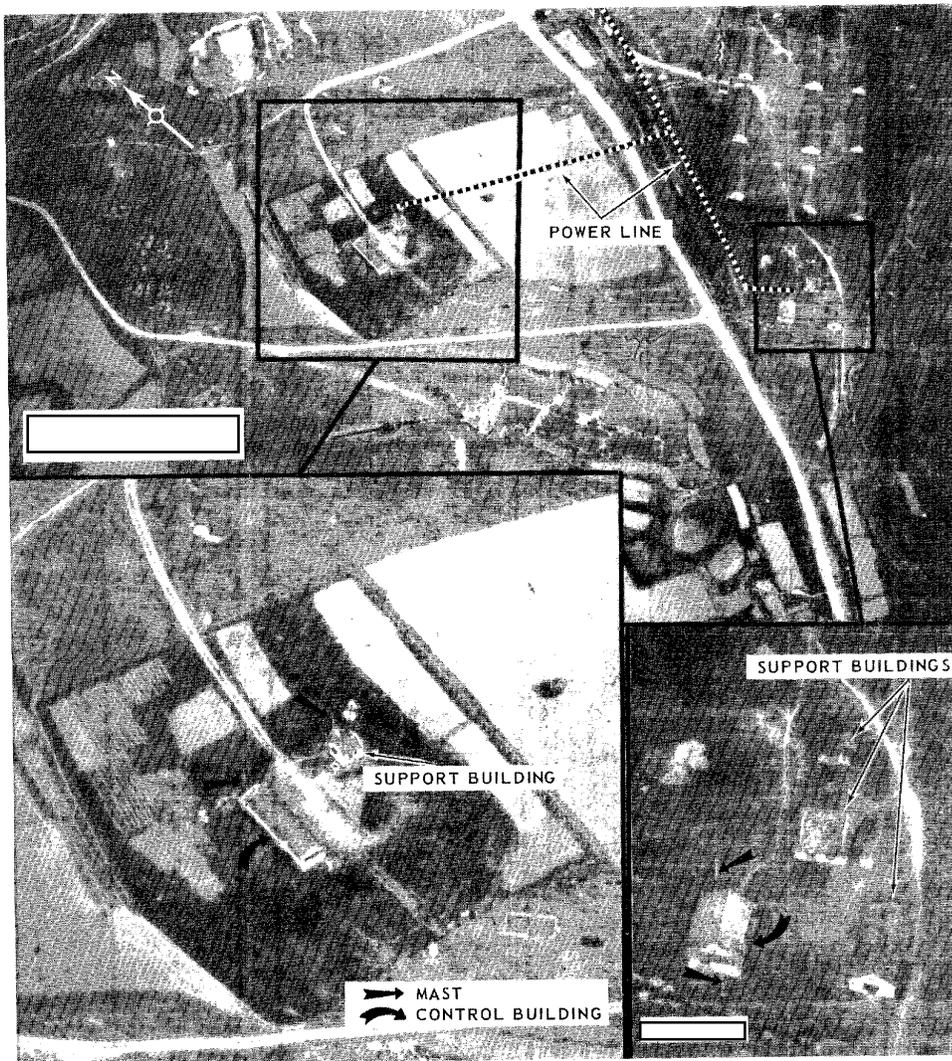
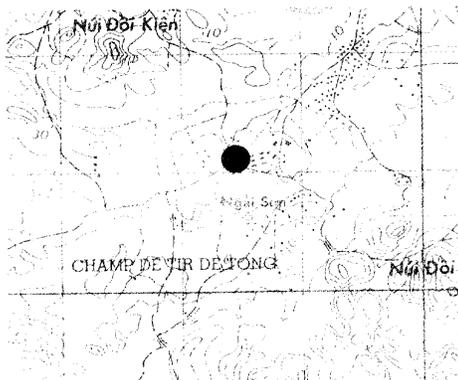


25X1D

A-25

INSTALLATION OR ACTIVITY NAME				COUNTRY	
Ngai Son Radio Communication Station				VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	NIETS NO.
WT484311	21-04-55N 105-27-58E			None	None
MAP REFERENCE			25X1A		
AMS. Series L7014, Sheet 6051 II, scale 1:50,000					
LATEST IMAGERY USED			NEGATION DATE (if required)		
25X1D			NA		

The facility, located 20.2 nautical miles west-northwest of Hanoi, consists of two areas, each with one control building and two masts. Four support buildings are also present.



25X1D

25X1D

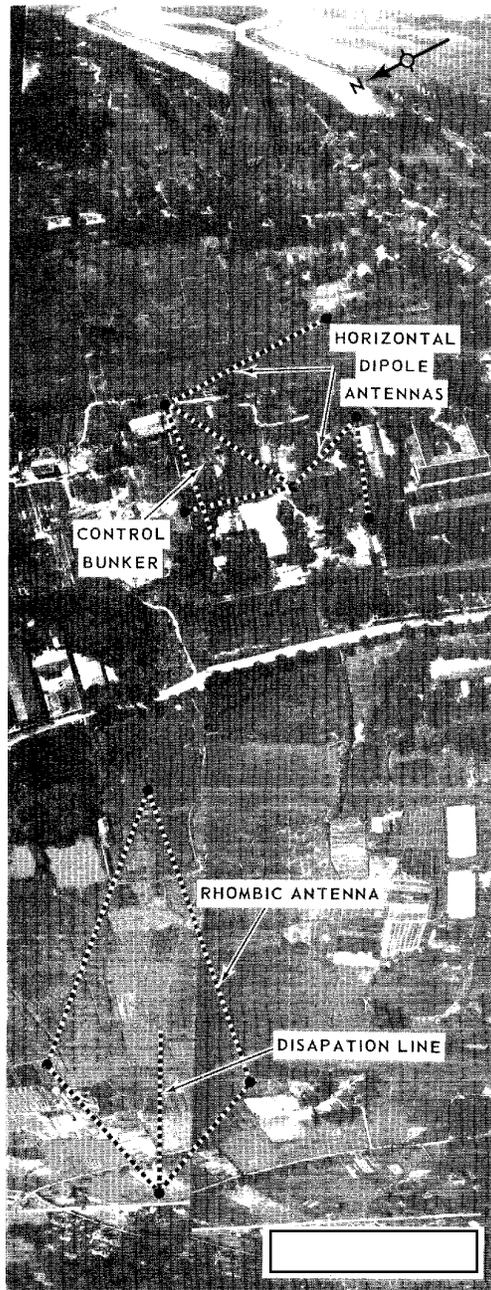
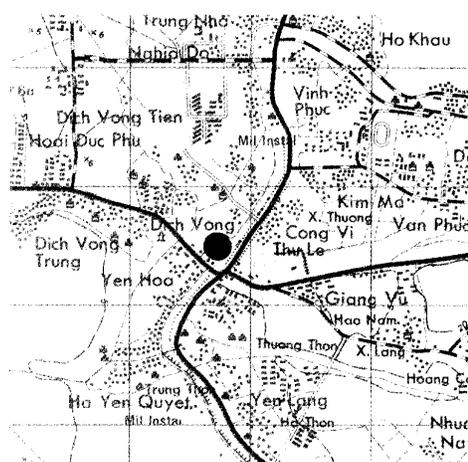
A-27

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communications Station Yen Hou				COUNTRY VN	
UTM COORDINATES WJ837254	GEOGRAPHIC COORDINATES 21-01-46N 105-48-21E	CATEGORY	BE NUMBER	COMIREX NO. None	NIETS NO. None
MAP REFERENCE 25X1A					

AMS. Series L7014, Sheet 6151 II, scale 1:50,000

LATEST IMAGERY USED 25X1D	NEGATION DATE (if required) NA
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The facility, located 2.2 nautical miles west-northwest of Hanoi, consists of a control bunker, generator bunker, six support buildings, one transmitting rhombic antenna, and six horizontal dipole antennas.



25X1D

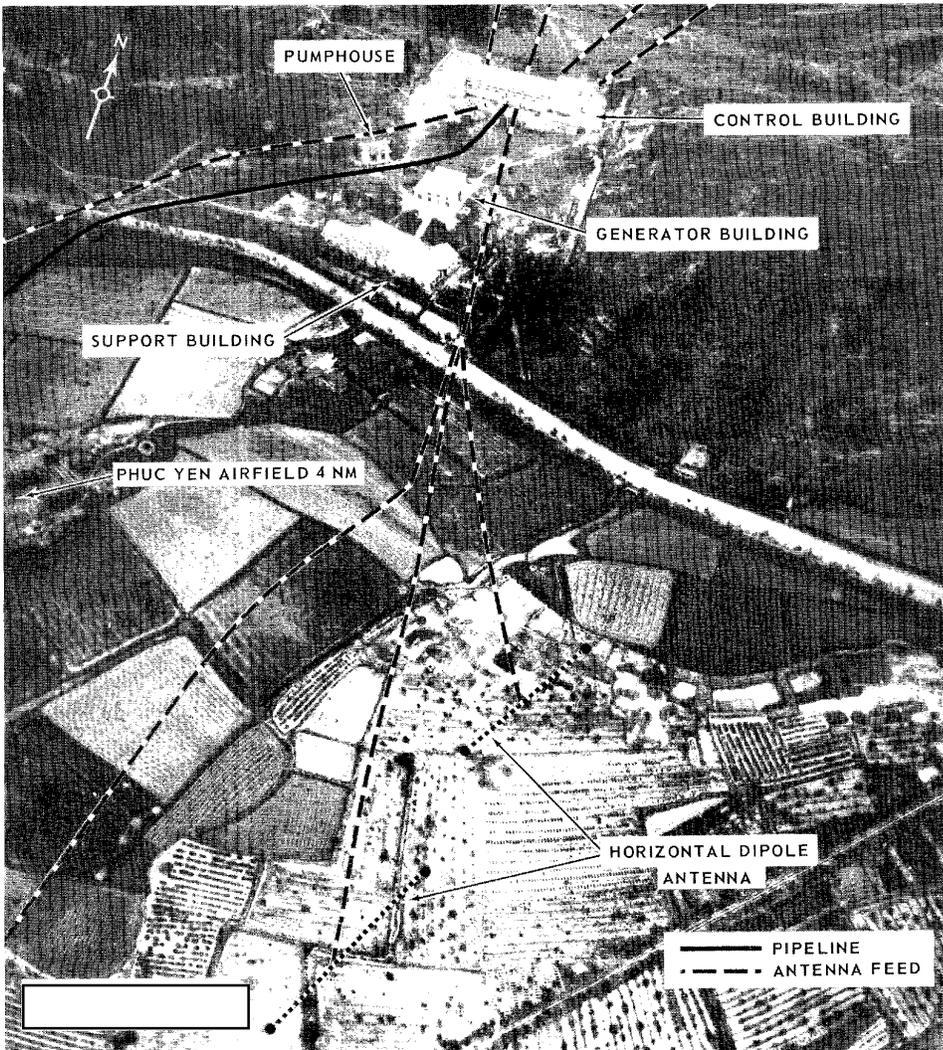
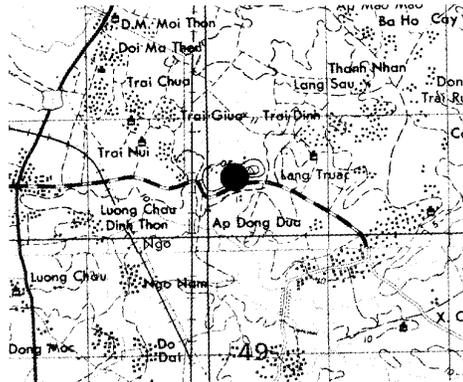
25X1



25X1C

INSTALLATION OR ACTIVITY NAME				COUNTRY	
Lang Truoc Radio Communication Transmitter				VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMREX NO.	
WJ902506	21-15-24N 105-52-10E			None	
MAP REFERENCE			25X1A		
AMS. Series L7014, Sheet 6151 I, scale 1:50,000					
LATEST IMAGERY USED			NEGATION DATE (if required)		
25X1D			NA		

The facility, located 4 nautical miles northeast of Phuoc Yen Airfield, consists of a control building, a support building, a generator building, and a pumphouse. Cooling water is supplied to the station from a tank at a nearby lake via a buried pipeline. An antenna field extending north and south of the control building contains a large single rhombic in a day/night configuration, one small single rhombic, four vee antennas, and 13 horizontal dipole antennas.



25X1D

A-31

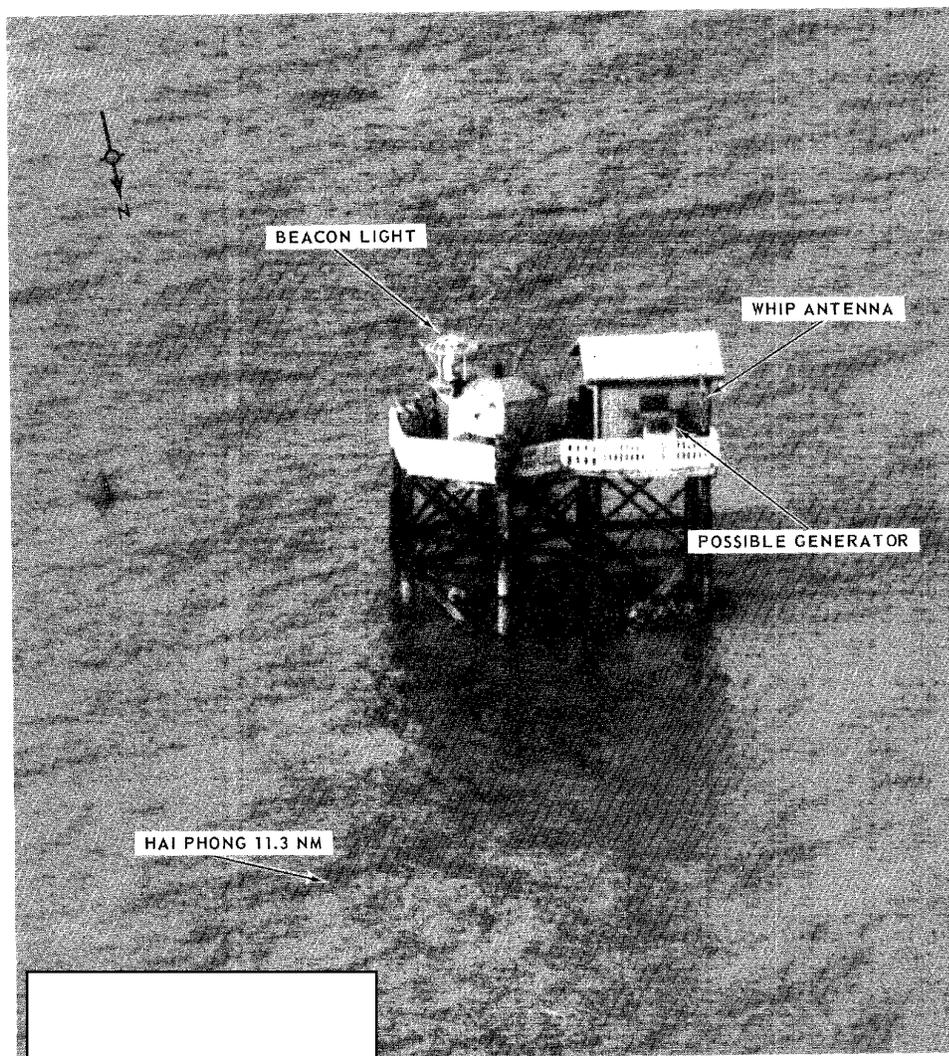
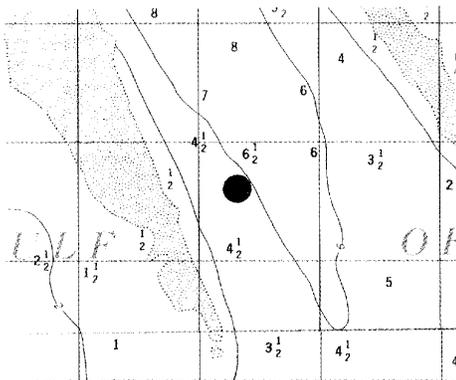
25X1



INSTALLATION OR ACTIVITY NAME Cua Nam Trieu Radio Communication Station Lighthouse				COUNTRY VN	
UTM COORDINATES XH933966	GEOGRAPHIC COORDINATES 20-45-40N 106-51-25E	CATEGORY	BE NUMBER	COMREX NO. None	NIETB NO. None
MAP REFERENCE AMS. Series L7014, Sheet 6350 I, scale 1:50,000			25X1A		
LATEST IMAGERY USED 25X1D			NEGATION DATE (if required) NA		

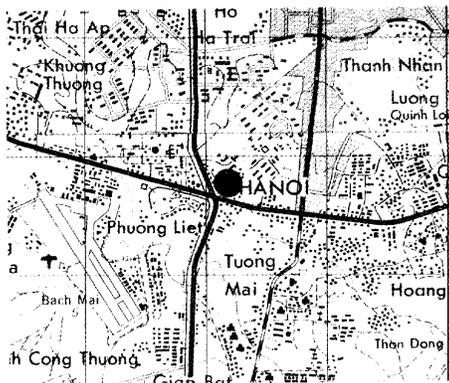
The facility, located on a light-house in the Cua Nam Trieu 11.3 nautical miles southeast of Haiphong, consists of a whip antenna and a possible generator.

Probable living quarters and a smaller domed building are also supported by the lighthouse tower.



INSTALLATION OR ACTIVITY NAME					COUNTRY	
Hanoi Communications Facility South					VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	NIETS NO.	
WJ881218	20-59-49N 105-50-54E			None	None	
MAP REFERENCE				25X1A		
AMS. Series L7014, Sheet 6150 I, scale 1:50,000						
LATEST IMAGERY USED			NEGATION DATE (if required)			
25X1D			NA			

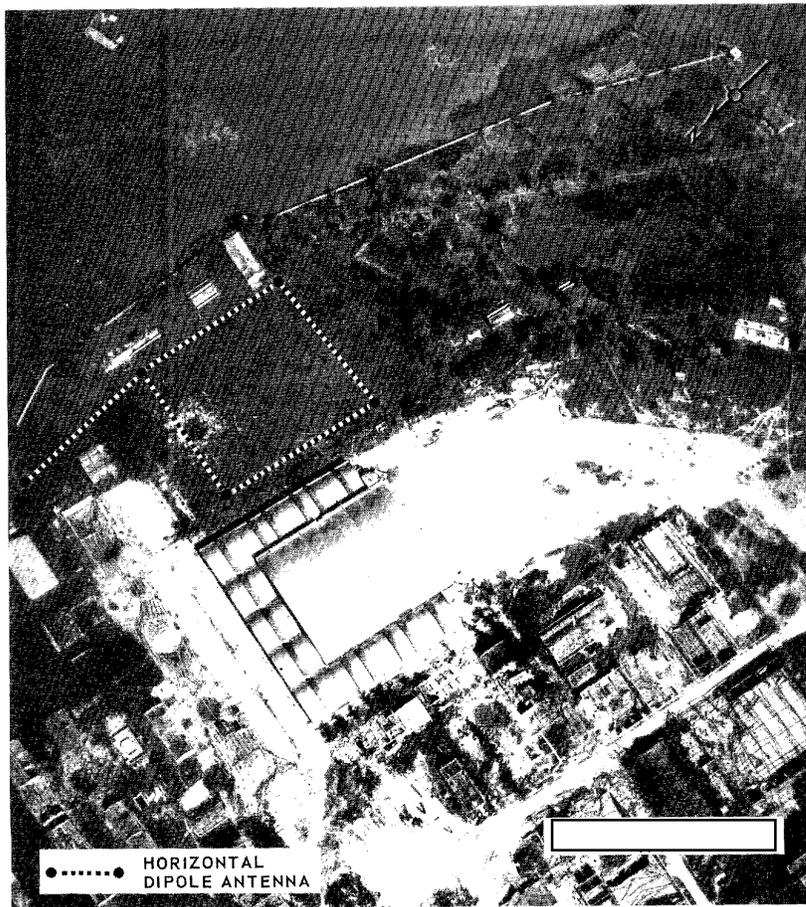
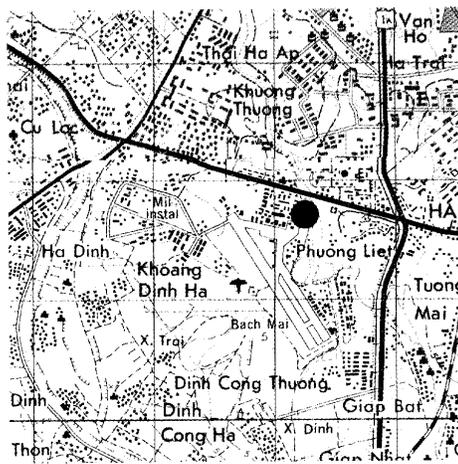
The facility, located on the south edge of Hanoi, consists of two control buildings (one protected by a blast wall), a generator building protected by a blast wall, two small earth-covered buildings, seven support buildings, and five pairs of horizontal dipole antennas.



INSTALLATION OR ACTIVITY NAME Hanoi Radio Station Bac Mai East				COUNTRY VN	
UTM COORDINATES WJ870217		GEOGRAPHIC COORDINATES 20-59-47N 105-50-16E		COMREX NO. None	
MAP REFERENCE 25X1A		CATEGORY		BE NUMBER	
LATEST IMAGERY USED 25X1D		NEGATION DATE (if required) NA			

AMS. Series L7014, Sheet 6150 I, scale 1:50,000

The facility, located 0.2 nautical miles northeast of Hanoi/Bac Mai airfield, consists of two underground bunkers and an antenna field containing at least five horizontal dipole antennas.



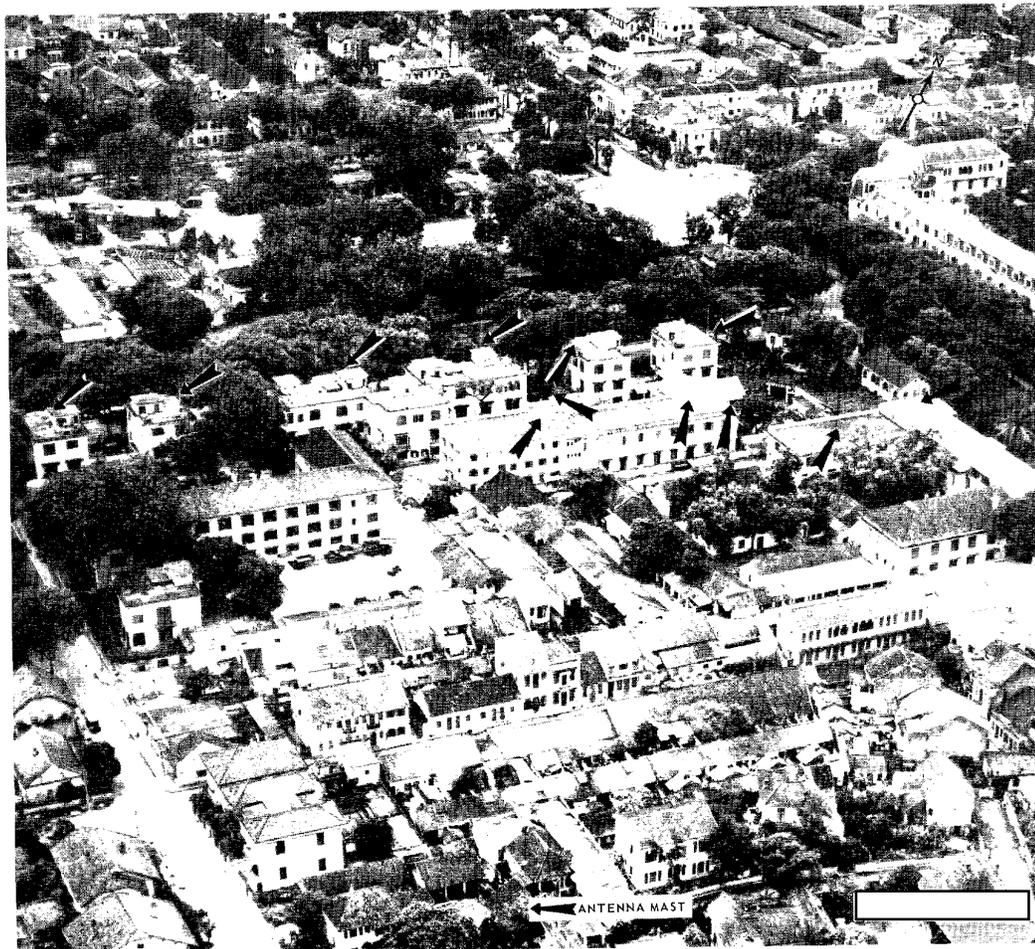
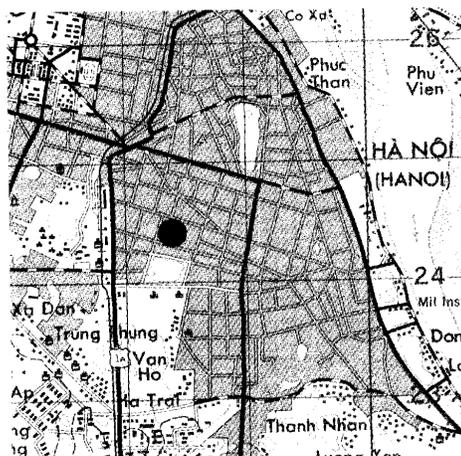
25X1D

A-41

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communication Station No 1				COUNTRY VN 25X1A	
UTM COORDINATES WJ883245	GEOGRAPHIC COORDINATES 21-01-12N 105-51-00E	CATEGORY	BE NUMBER	COMIREX NO. None	
MAP REFERENCE AMS. Series L7014, Sheet 6151 TL, scale 1:50,000 25X1A					

LATEST IMAGERY USED	NEGATION DATE (if required)
	NA

The facility, located in Hanoi, is reported to be the Ministry of Public Security. Communications equipment consists of 12 roof-top masts supporting at least three horizontal dipole antennas and one SQUIRREL CAGE dipole.

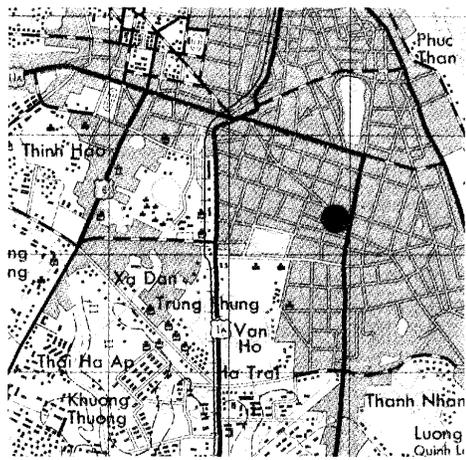


25X1D

A-13

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communication Station No 2		COUNTRY VN	
UTM COORDINATES WJ888244	GEOGRAPHIC COORDINATES 21-01-11N 105-51-17E	COMIREX NO. None	
MAP REFERENCE AMS. Series I7014, Sheet 6.51 II, scale 1:50,000		25X1A	25X1A
LATEST IMAGERY USED 25X1D		NEGATION DATE (if required) NA	

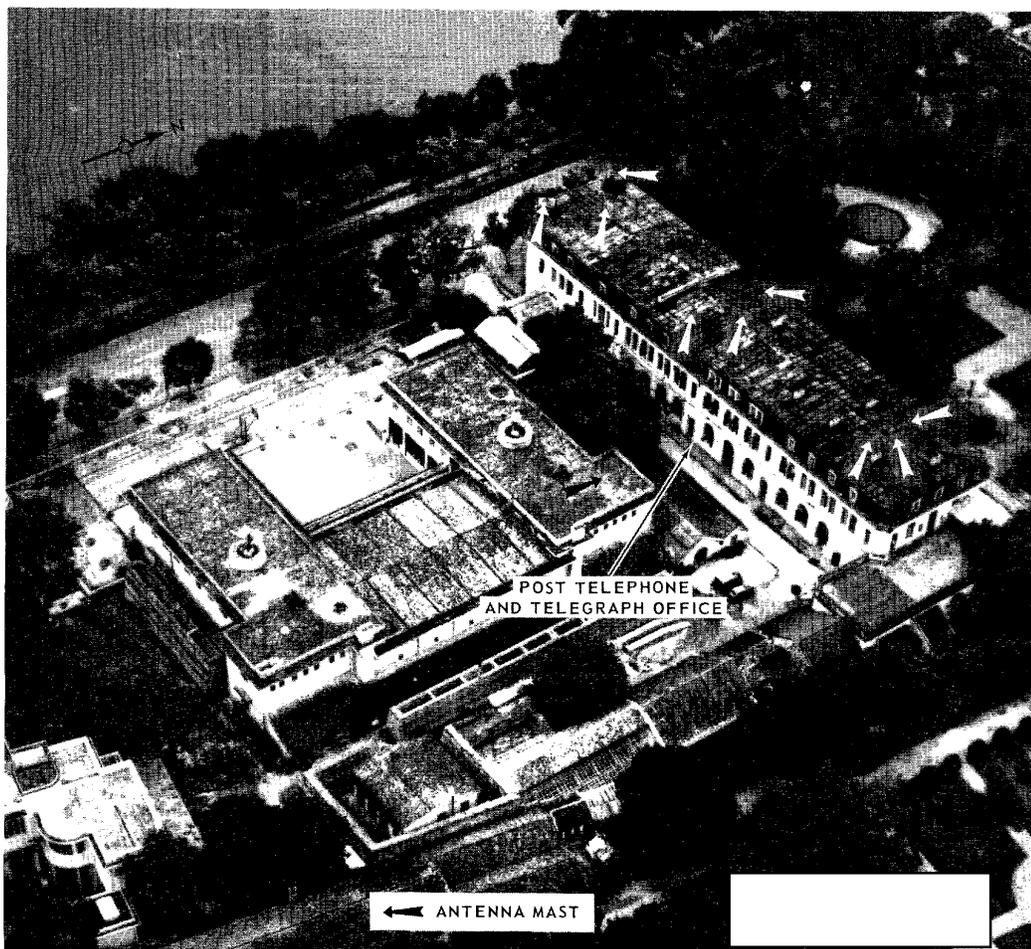
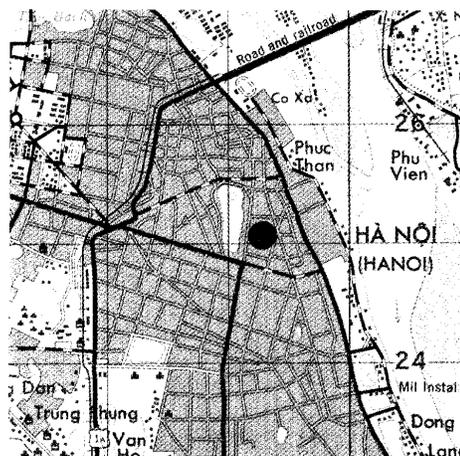
The facility, located in Hanoi, consists of one beam antenna and two whip antennas with ground planes mounted on roof tops. The function of the buildings on which these antennas are located is unknown.



25X1D

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communications Station No. 3 25X1A			COUNTRY VN		
UTM COORDINATES WJ892251	GEOGRAPHIC COORDINATES 21-01-35N 105-51-30E	BE NUMBER None	COMIREX NO. None		
MAP REFERENCE AMS. Series L7014, Sheet 6151 II, scale 1:50,000			25X1A		
LATEST IMAGERY USED 25X1D			NEGATION DATE (if required) NA		

The facility, located in Hanoi, consists of three roof-top masts supporting two possible horizontal dipole antennas. The building on which the masts are located is reported to be the Post, Telephone and Telegraph Office.

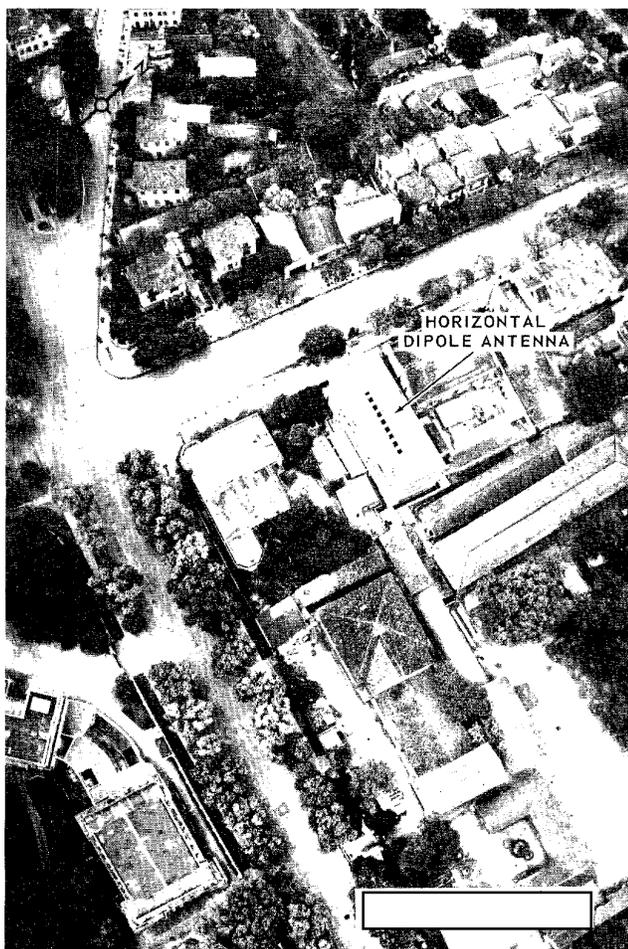
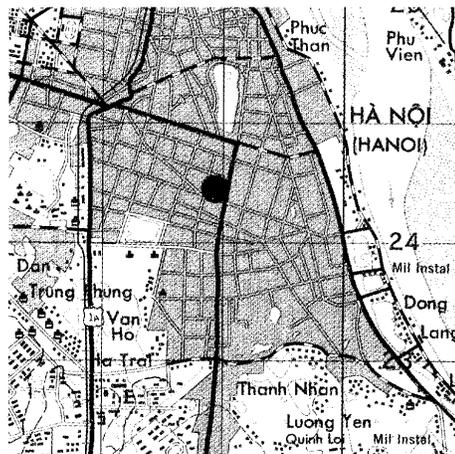


25X1

A-117

INSTALLATION OR ACTIVITY NAME		COUNTRY	
Hanoi Radio Communication Station No. 4		VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
WJ888245	21-01-13N 105-51-18E	None	
MAP REFERENCE		25X1A	25X1A
AMS. Series L7014, Sheet 6151 II, scale 1:50,000			
LATEST IMAGERY USED	NEGATION DATE (if required)		
25X1D	NA		

The facility, located in Hanoi, consists of one horizontal dipole antenna mounted on a rooftop. The function of the building is unknown.



25X1D

A-49

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communication Station No. 5				COUNTRY VN	
UTM COORDINATES WJ880240		GEOGRAPHIC COORDINATES 21-01-00N 105-50-52E		BE NUMBER None	COMREX NO. None

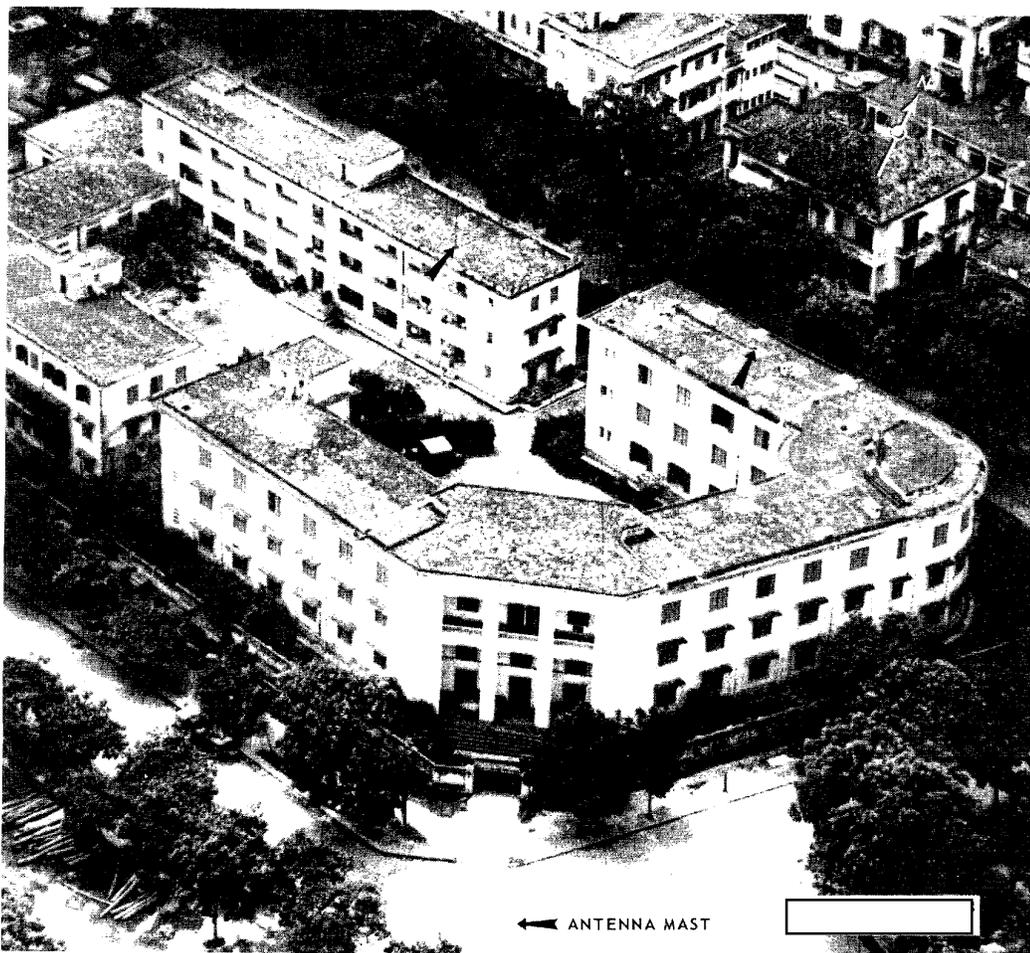
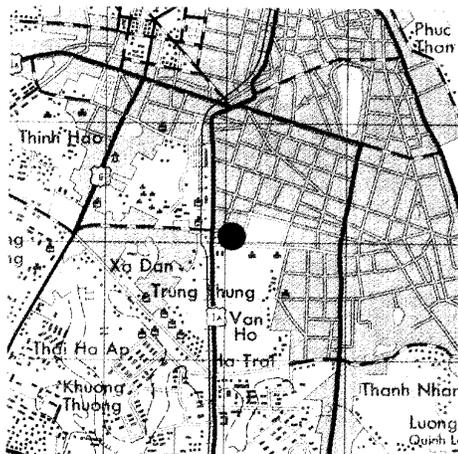
25X1A

25X1A

MAP REFERENCE
AMS. Series L7014, Sheet 6151 TT, scale 1:50,000

LATEST IMAGERY USED 25X1D	NEGATION DATE (if required)
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The facility, located in Hanoi, consists of two roof-top masts supporting a horizontal dipole. The function of the building is unknown.



25X1D

A-51

25X1

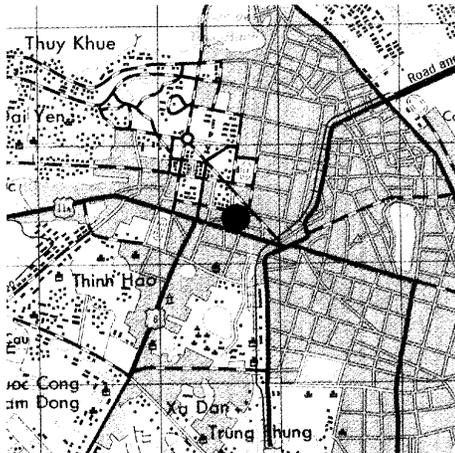
[Redacted]

25X1C

INSTALLATION OR ACTIVITY NAME				COUNTRY	
Hanoi Radio Communication Station No. 7				VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	
WJ876254	21-01-45N 105-50-35E			None	[Redacted]
MAP REFERENCE			25X1A		25X1A
AMS. Series L7014, Sheet 6151 II, scale 1:50,000					
LATEST IMAGERY USED			NEGATION DATE (if required)		
[Redacted] 25X1D			NA		

25X6

[Redacted]



25X1D

A-55

25X1

[Redacted]

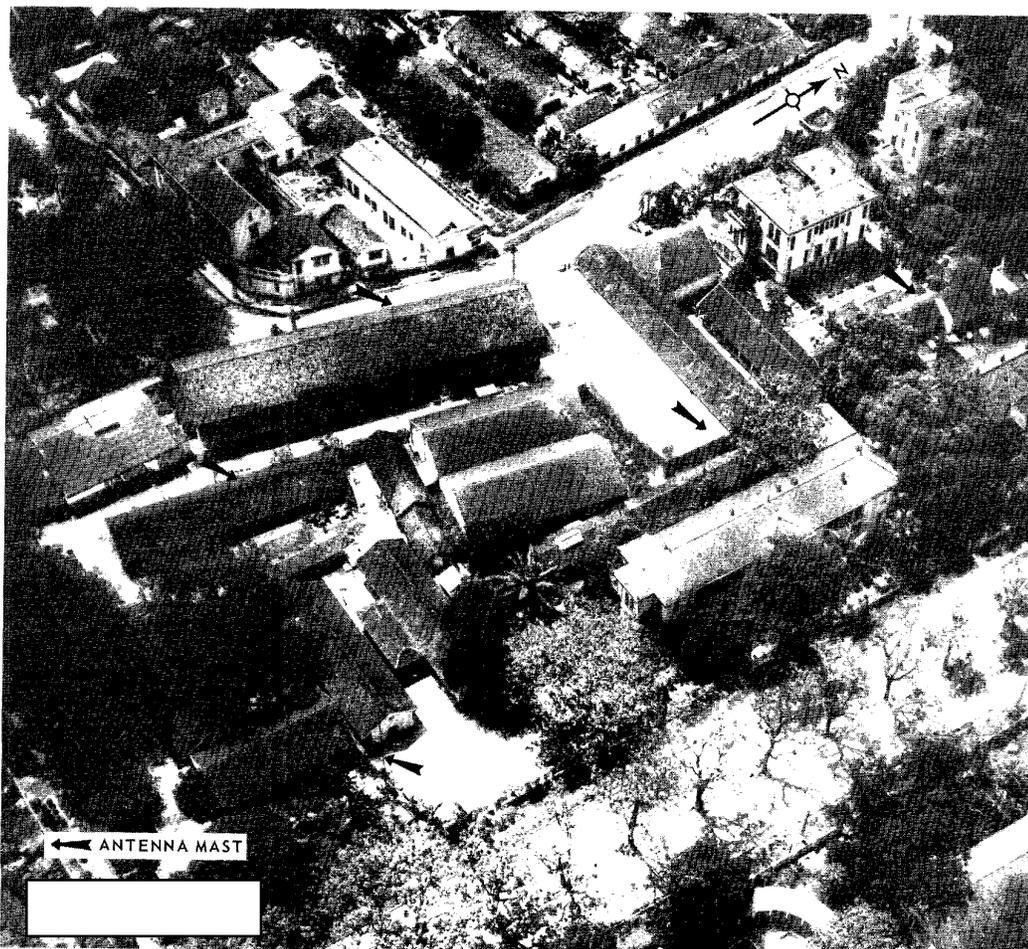
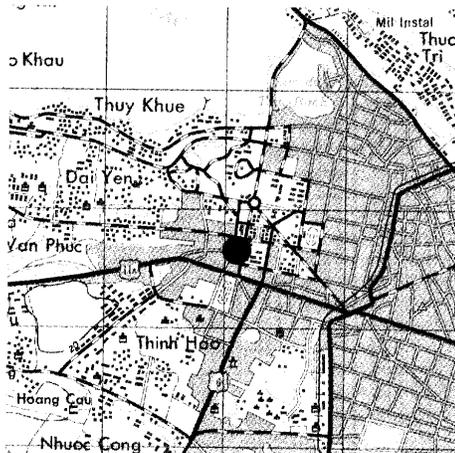
INSTALLATION OR ACTIVITY NAME		COUNTRY	
Hanoi Radio Communication Station No. 8		VW	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
WJ871257	21-01-54N 105-50-18E	None	None

25X1A

AMS. Series L7014, Sheet 6151 II, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located in Hanoi, is the probable location of the Hanoi Central Radio Station. This station has the responsibility for communications with the post telegraph and telephone offices in the provinces, the long distance telephone switchboard office, and the control facility for international radio communications. Five antenna masts support four probable horizontal dipole antennas.

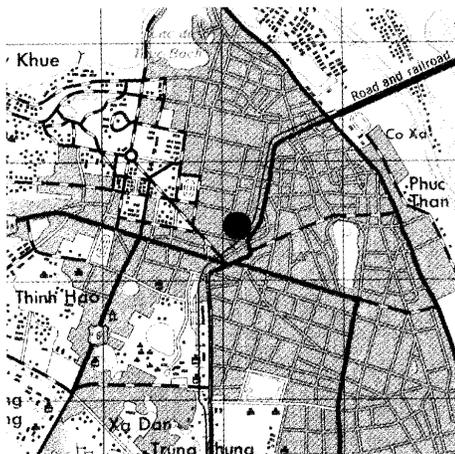


25X1D

A-57

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communication Station No. 16				COUNTRY VN	
UTM COORDINATES WJ882256		GEOGRAPHIC COORDINATES 21-01-40N 105-50-56E		BE NUMBER None	COMIREX NO. None
MAP REFERENCE AMS. Series L7014, Sheet 6151 II, scale 1:50,000					
LATEST IMAGERY USED 25X1D			NEGATION DATE (if required) NA		

The facility, located in Hanoi, consists of one horizontal dipole antenna with the feed line leading into a residential building. The function of this station is unknown.

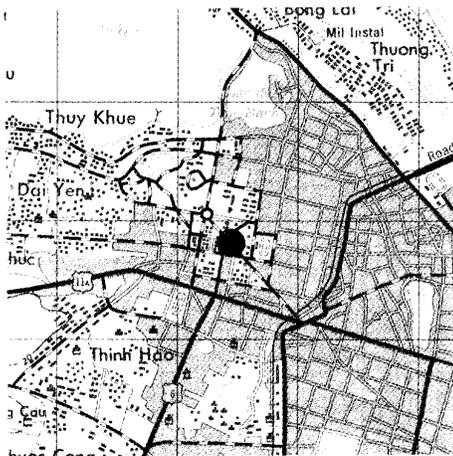


25X1D

A-61

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communication Station No. 11				COUNTRY VN	
UTM COORDINATES WJ874258		GEOGRAPHIC COORDINATES 21-01-48N 105-50-55E		RE NUMBER None	COMPLEX NO. None
MAP REFERENCE AMS. Series L7014, Sheet 6151 II, scale 1:50,000					
LATEST IMAGERY USED 25X1D			NEGATION DATE (if required) NA		

The facility, located in the reported Czechoslovakian Embassy compound in Hanoi, consists of an HF band, 12-element, log periodic antenna mounted on the roof of a residential-type building. The antenna is oriented northwest.

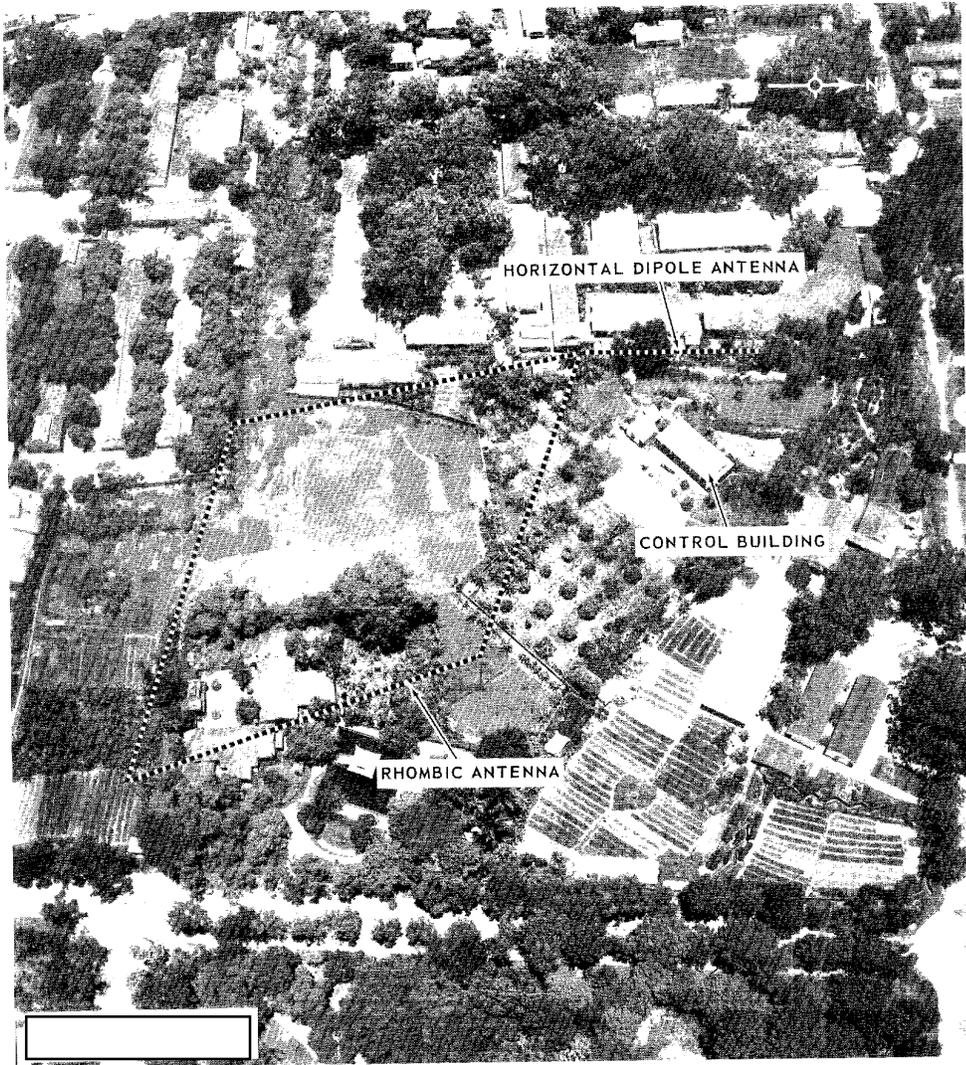
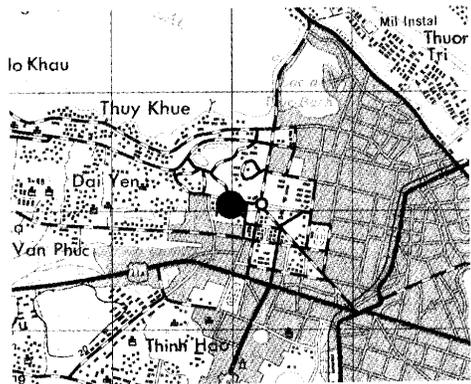


INSTALLATION OR ACTIVITY NAME		COUNTRY	
Hanoi Radio Communication Station No. 12		VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
WJ869260	21-02-04N 105-50-12E	None	
MAP REFERENCE		25X1A	25X1A

AMS. Series L7014, Sheet 6151 II, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located in Hanoi, consists of one rhombic antenna, one horizontal diode, one unidentified wire antenna, a control building, a generator building, and a bunker.

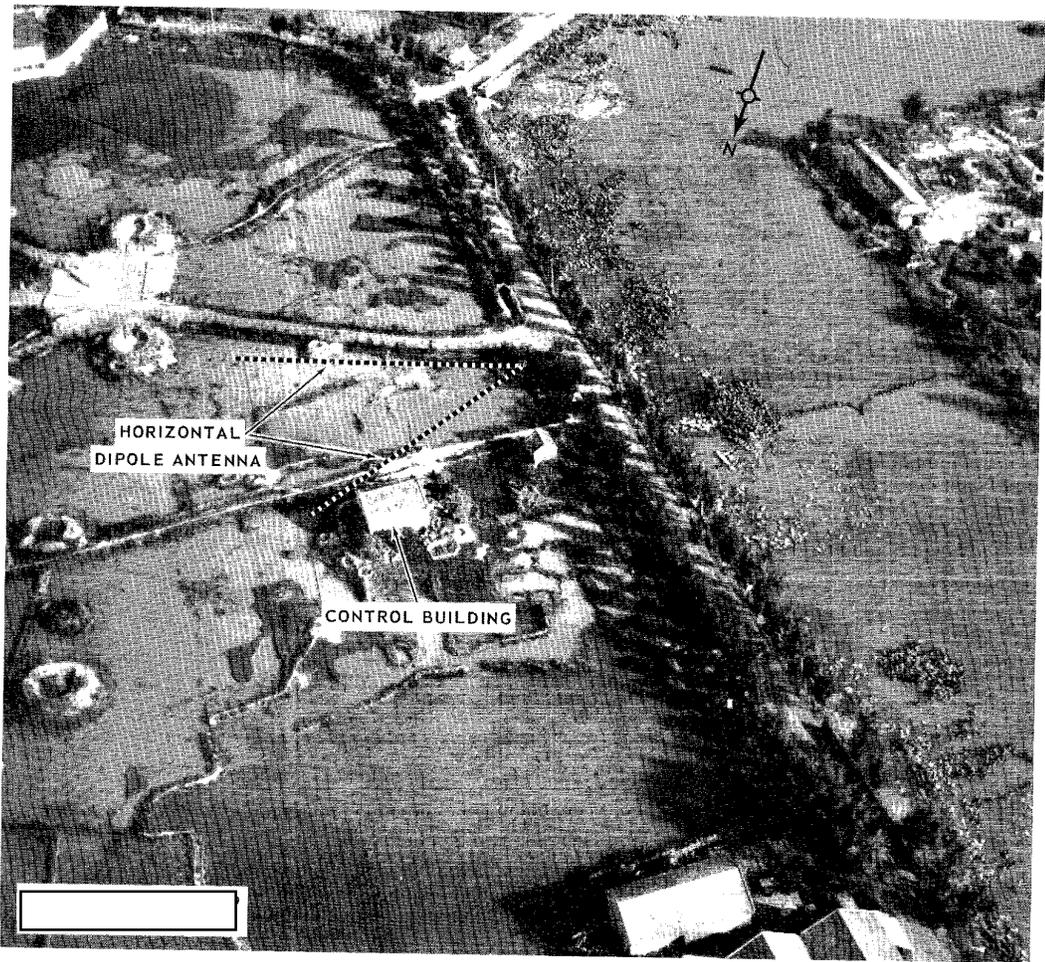
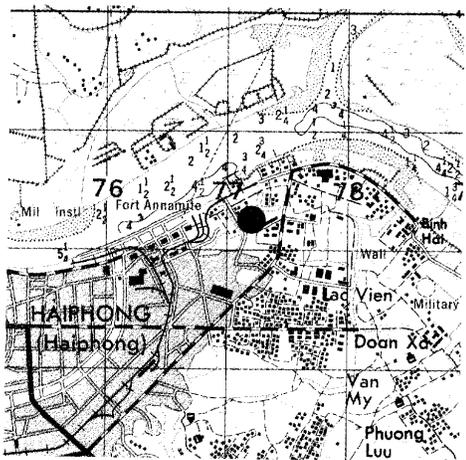


25X1D

A-65

INSTALLATION OR ACTIVITY NAME		COUNTRY	
Haiphong Radio Communication Station Military		VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
XJ771083	20-52-05N 106-42-00E	None	
MAP REFERENCE		25X1A	25X1A
AMS. Series L7014, Sheet 6350 IV, scale 1:50,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
25X1D		NA	

The facility, located on the northeast edge of Haiphong, consists of two horizontal dipole antennas, one small control building, and one support building.



HORIZONTAL
DIPOLE ANTENNA

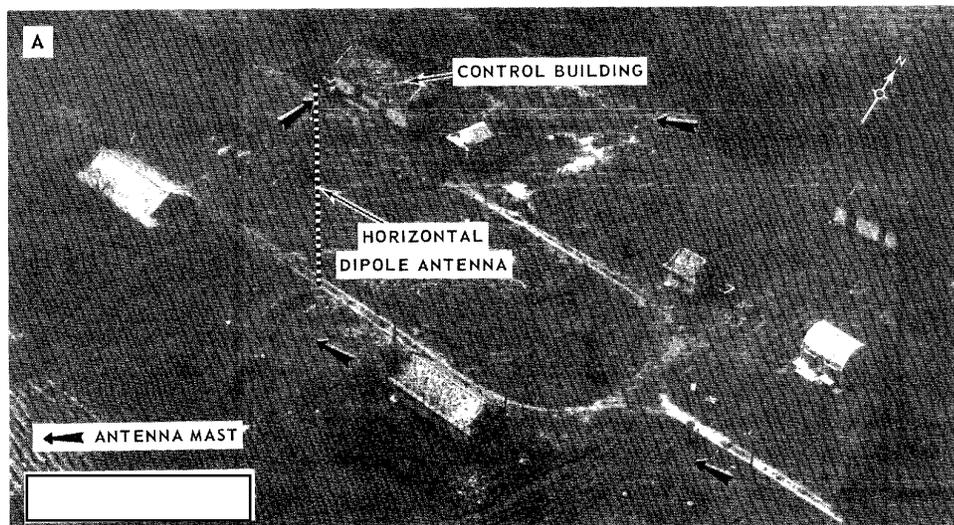
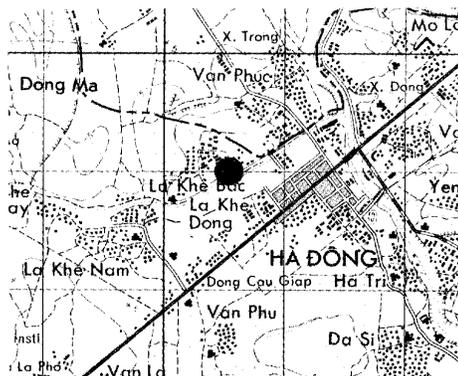
CONTROL BUILDING

25X1D

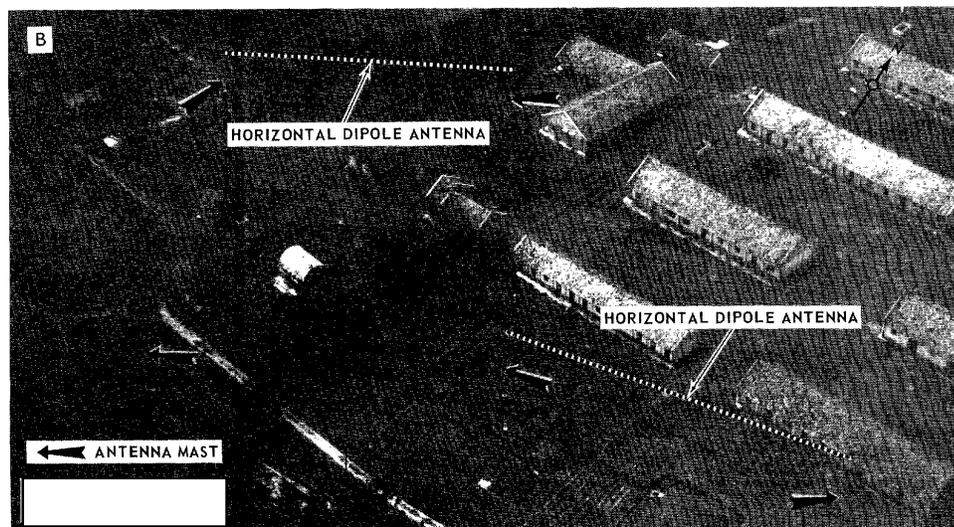
A-67

INSTALLATION OR ACTIVITY NAME Ha Dong Radio Communication Station			COUNTRY VN	
UTM COORDINATES WJ805190	GEOGRAPHIC COORDINATES 20-58-18N 105-46-18E		COMIREX NO. None	NIETB NO. None
MAP REFERENCE AMS. Series L7014, Sheet 6150 I, scale 1:50,000			25X1A	
LATES IMAGERY USED 25X1D		NEGATION DATE (if required) NA		

The facility, located at the Ha Dong Army Barracks 0.4 nautical miles west of Ha Dong, consists of a possible control building and seven antenna masts supporting at least three horizontal dipole antennas.



25X1D

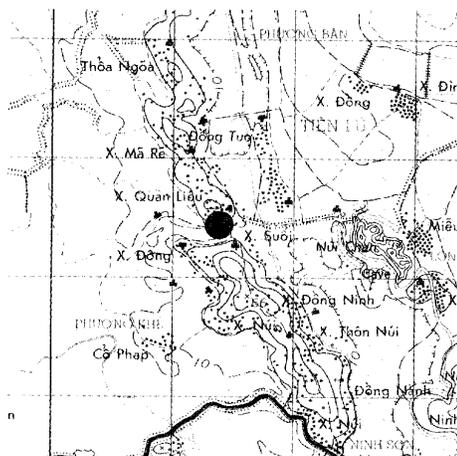


25X1D

A-69

INSTALLATION OR ACTIVITY NAME Hanoi Radio Communication Station Chuc Son		COUNTRY VN	
UTM COORDINATES WJ714155	GEOGRAPHIC COORDINATES 20-56-24N 105-41-12E	COMIREX NO. None	
MAP REFERENCE AMS. Series L7014, Sheet 6150 IV, scale 1:50,000		25X1A	25X1A
LATEST IMAGERY USED 25X1D		REGISTRATION DATE (if required) NA	

The facility, located 10 nautical miles southwest of Hanoi, consists of a control building, an underground bunker, three support buildings, and eight horizontal dipole antennas.

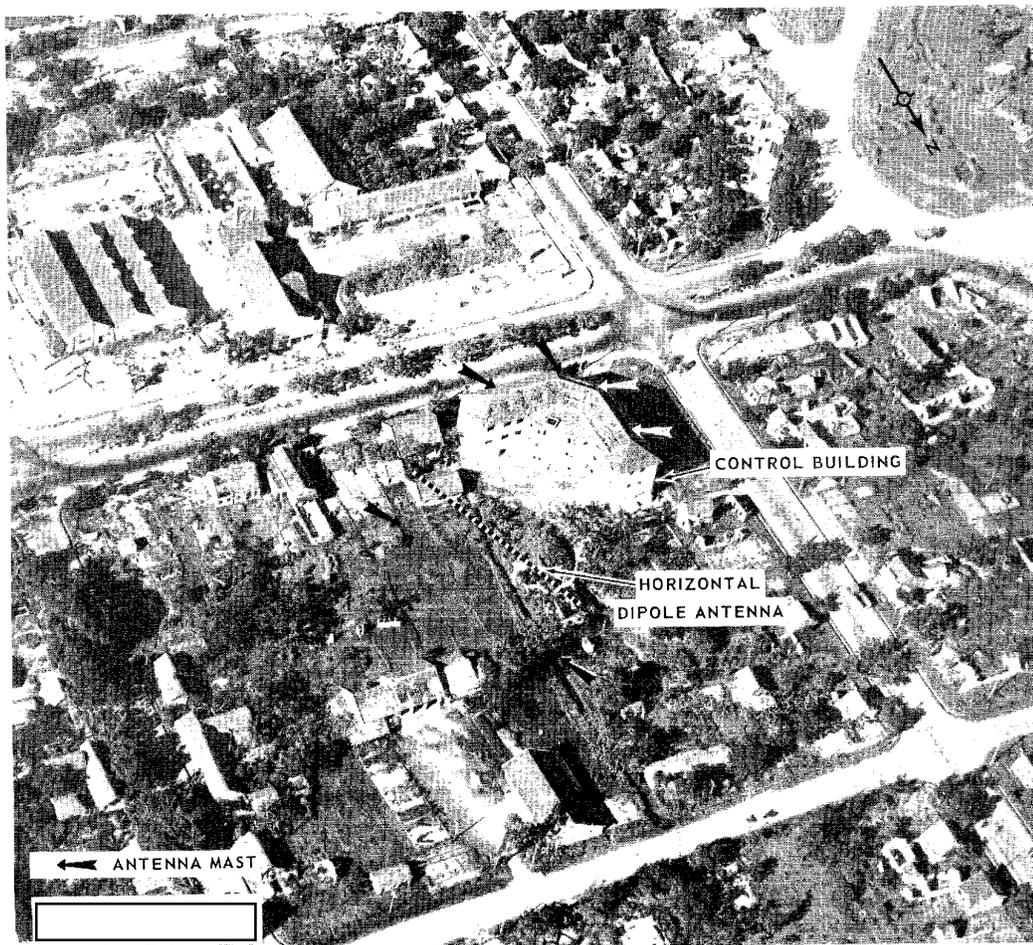
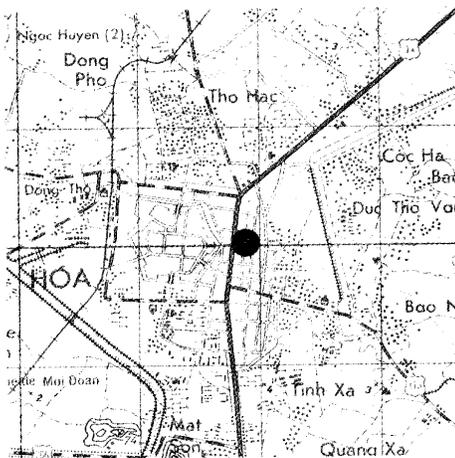


25X1D

A-71

INSTALLATION OR ACTIVITY NAME Thanh Hoa HF Communication Station			COUNTRY VN	
UTM COORDINATES WG818901	GEOGRAPHIC COORDINATES 19-48-23N 105-46-53E		COMIREX NO. None	NIETS NO. None
MAP REFERENCE AMS. Series L7014, Sheet 6148 I, scale 1:50,000			25X1A	
LATEST IMAGERY USED 25X1D			NEGATION DATE (if required) NA	

The facility, located in Thanh Hoa, consists of a multistory control building with four masts on the roof supporting long-wire antennas. Two masts support a horizontal dipole antenna adjacent to the building.



25X1D

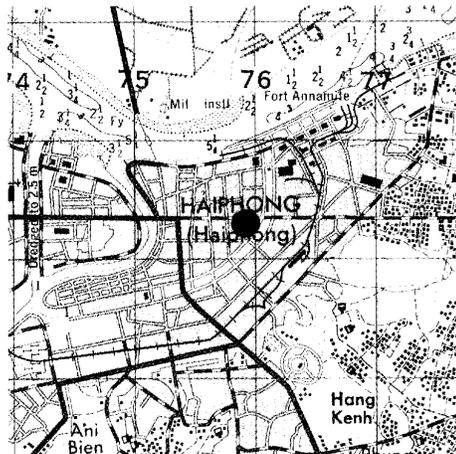
A-73

25X1

INSTALLATION OR ACTIVITY NAME Haiphong Radio Communication Station				COUNTRY VN	
UTM COORDINATES XJ759074		GEOGRAPHIC COORDINATES 20-51-38N 106-41-35E		BE NUMBER None	COMREX NO. None
MAP REFERENCE AMS. Series L7014, Sheet 6350 IV, scale 1:50,000					
LATEST IMAGERY USED 25X1D			NEGATION DATE (if required) NA		

25X1B

The facility, located in Haiphong, consists of three masts supporting two (possibly three) horizontal dipole antennas and a [redacted] control building.



25X1D

A-75

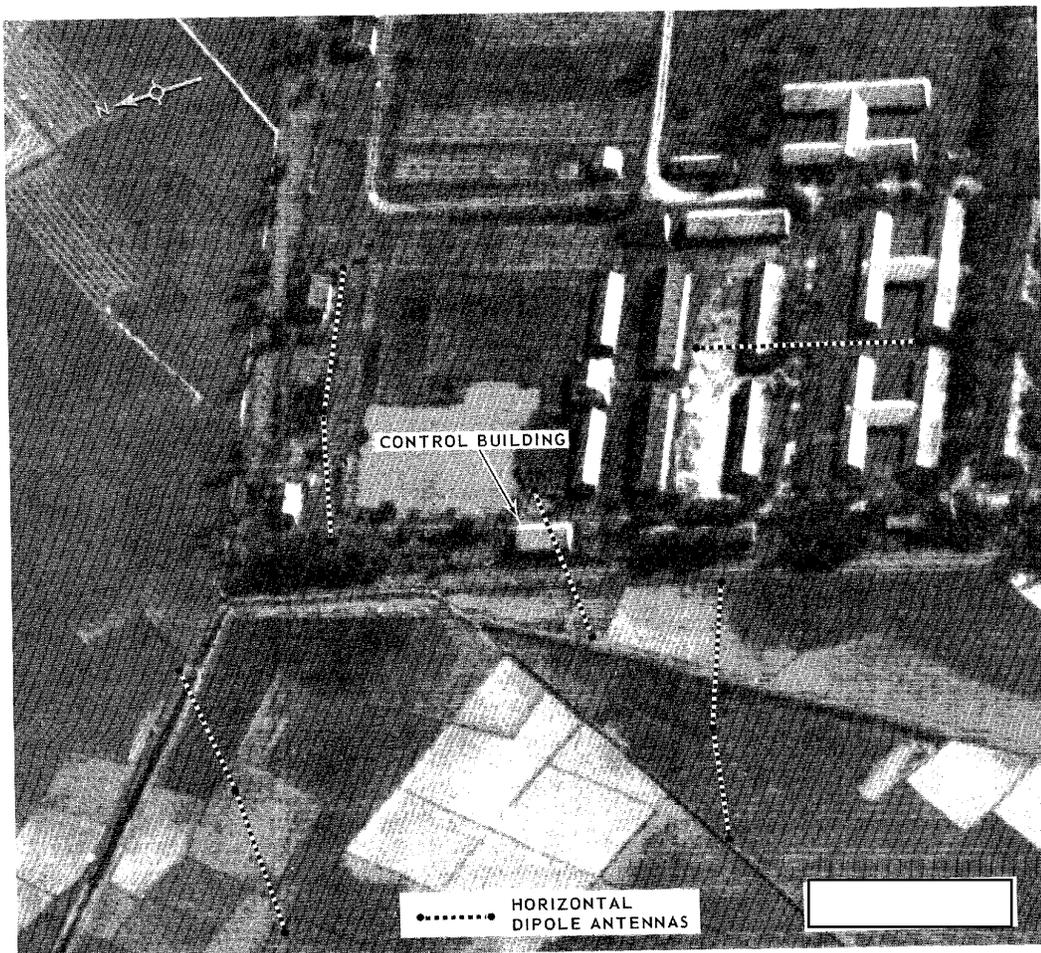
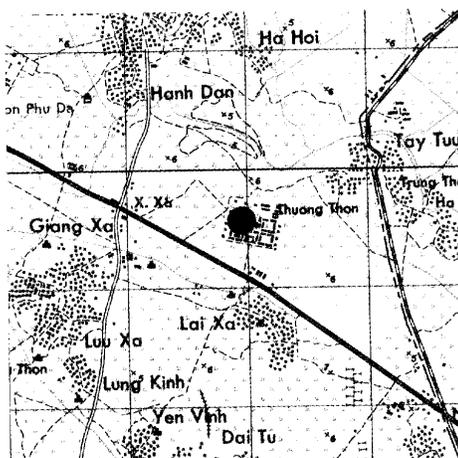
25X1

INSTALLATION OR ACTIVITY NAME				COUNTRY	
25X1A				VN	
Dan Hoi Army Barracks South Radio Communication Station					
UTM COORDINATES	GEOGRAPHIC COORDINATES	BE NUMBER	COMIREX NO.	NIETS NO.	
WJ748296	21-04-03N 105-43-15E	None	None	None	
MAP REFERENCE					

AMS. Series L7014, Sheet 6151 III, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located in the Dan Hoi Army Barracks South [redacted], consists of eight horizontal dipole antennas and a revetted control building. 25X1A



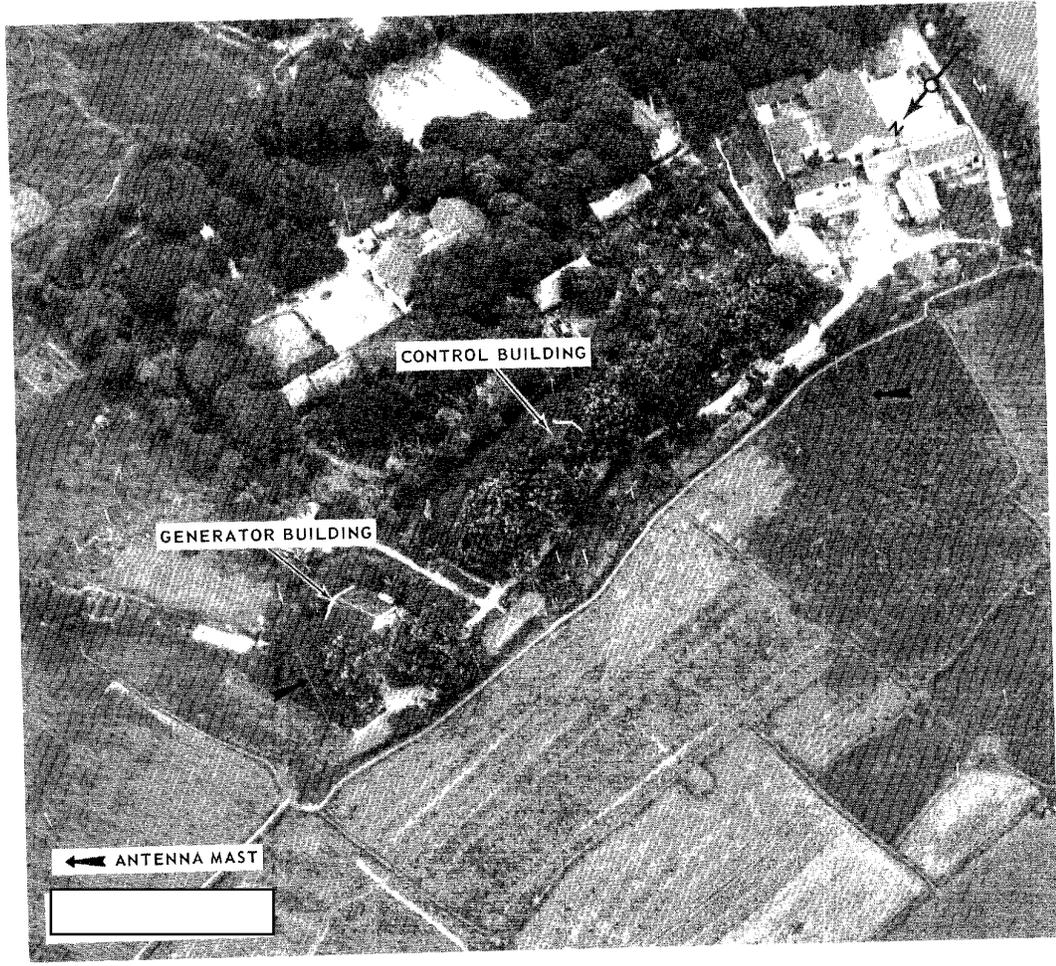
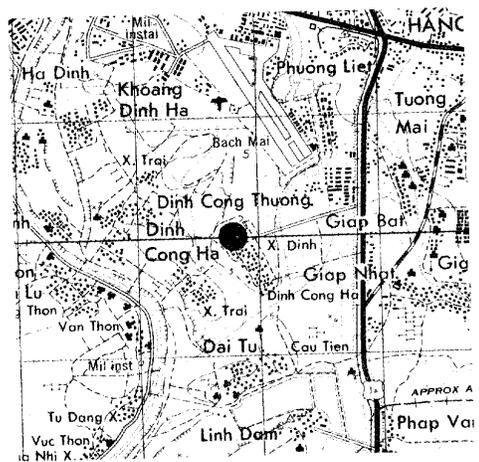
25X1D

A-77

25X1

INSTALLATION OR ACTIVITY NAME 25X1A Hanoi/Bac Mai Radio Communication Station South		COUNTRY VN	
UTM COORDINATES WJ866201	GEOGRAPHIC COORDINATES 20-58-52N 105-50-04E	BE NUMBER	COMREX NO. None
MAP REFERENCE AMS. Series L7014, Sheet 6150 I, scale 1:50,000		25X1A	
LATEST IMAGERY USED 25X1D		NEGATION DATE (if required) NA	

The facility, located 0.7 nautical miles south of Hanoi/Bac Mai Airfield, consists of a revetted control building, a revetted generator building, ten horizontal dipole antennas, one probable horizontal dipole antenna, three DISCONE antennas, one possible MERCURY GRASS, and one WHIP antenna.



25X1D

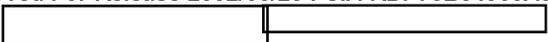
A-79

25X1

~~SECRET~~

NPIC/R-97/69

25X1



25X1C

CATEGORY B WEATHER STATIONS

B-1

~~SECRET~~

25X1C

25X1

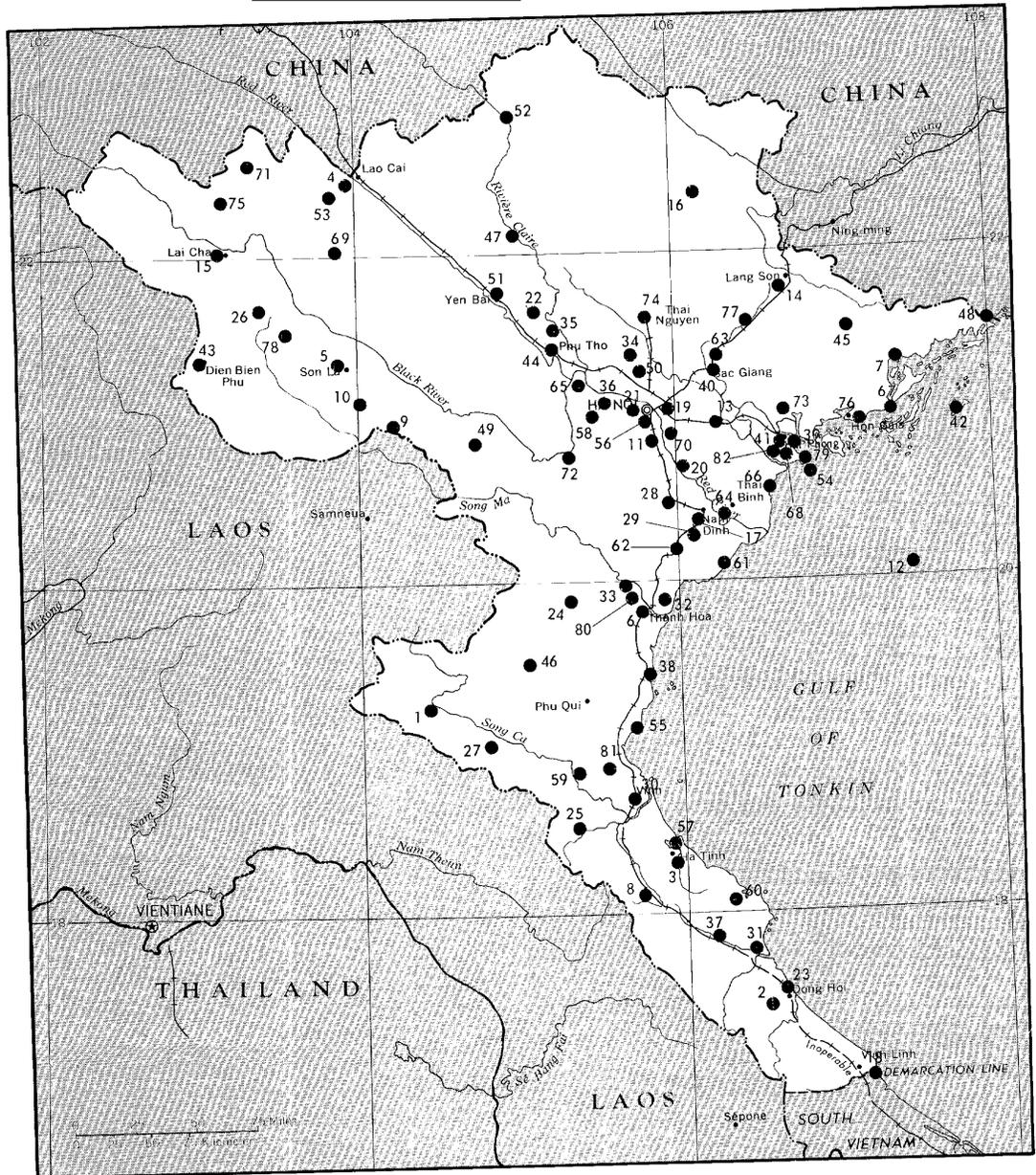


SECRET

NPIC/R-97/69

25X1

25X1C



SECRET

25X1C

25X1

CATEGORY B
WEATHER STATIONS

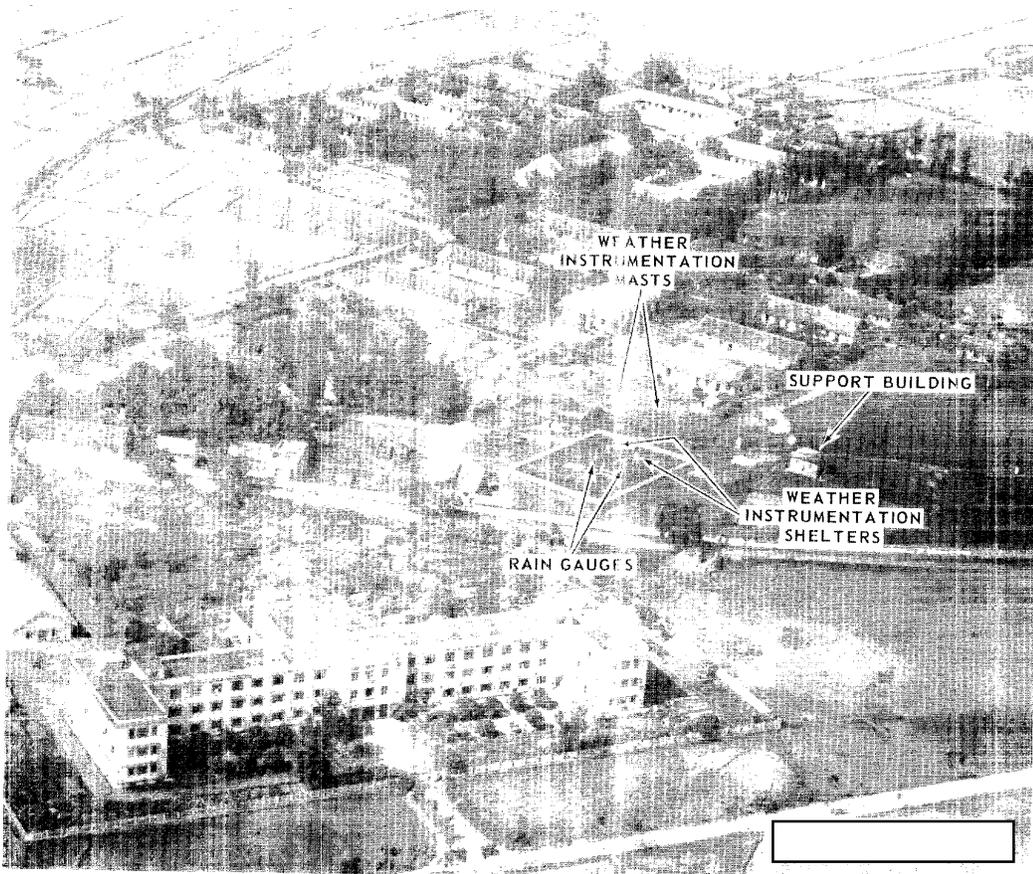
Map Key	Name	EE No	Geographic Coordinates	UTM Coordinates*
		25X1A		
1	Ban Tieme		19-15-38N 104-28-30E	VG447296
2	Dong Hoi		17-28-55N 106-36-24E	XE706334
3	Ha Tinh		18-20-33N 105-54-30E	WF959282
4	Lao Cai		22-28-53N 103-55-54E	UK951862
5	Son La		21-19-49N 103-54-36E	UJ869589
6	Thanh Hoa		19-48-24N 105-46-23E	WC811901
7	Tien Yen		21-19-27N 107-25-03E	YJ508598
8	Chu Le		18-10-57N 105-42-26E	WF748103
9	Ban Phat		21-02-54N 104-18-12E	VJ276274
10	Ban Heo		21-07-48N 104-09-36E	VJ127366
11	Hanoi		20-59-59N 105-56-15E	WJ974221
12	Bach Long Island		20-07-55N 107-43-50E	YH853281
13	Hai Duong		20-56-12N 106-19-15E	XJ373155
14	Lang Son		21-48-44N 106-46-17E	KK832147
15	Lai Chau		22-03-54N 103-09-42E	UK104409
16	Cao Bang		22-39-43N 106-16-06E	XL287064
17	Nam Dinh		20-25-56N 106-09-29E	XH210595
18	Xom Cua (Tung)**		17-01-14N 107-06-37E	YD248829
19	Hanoi/Gia Lam Airfield		21-02-29N 105-53-40E	WJ928267
20	Xom Tay		20-39-54N 106-03-42E	XH105852
21	Hanoi Army Barracks			
	West Yen Lang		21-01-25N 105-48-29W	WJ837247
22	Trai Hoang Thi		21-44-58N 105-02-11E	WKO38048
23	Dong Hoi Airfield**		17-30-32N 106-35-40E	XE691364
24	Bai Thuong		19-53-54N 105-22-51E	WH398001
25	Rao Qua Army Barracks		18-27-27N 105-18-52E	WF332407
26	Tuan Giao		21-35-18N 103-25-25E	UJ369879
27	Xom Don Dien		19-02-51N 104-53-21E	VG060883
28	Phu Ly		20-32-26N 105-55-18E	WH962714
29	To Cau		20-21-40N 106-07-35E	XH177513
30	Vinh		18-41-17N 105-40-40E	WF714663
31	Ba Don**		17-45-22N 106-26-11E	XE522636
32	Nam Huan		19-53-42N 105-56-00E	WH978000
33	Binh An		19-58-42N 105-39-45E	WH692090
34	Hang Ech		21-35-36N 105-48-30E	WJ837878
35	Kim Lang		21-32-02N 105-12-19E	WJ213810
36	Son Tay		21-07-38N 105-30-49E	WJ533361
37	Cao Trach		17-49-47N 106-10-23E	XE244716
38	No Giap		19-26-35N 105-46-55E	WG821409
39	Haiphong/Cat Bi Airfield**		20-49-12N 106-43-42E	XJ797030
40	Dong Nham		21-17-30N 106-13-12E	XJ264548
41	Phu Lien		20-48-16N 106-38-04E	XJ701012
42	Nam Cap		20-58-32N 107-46-34E	YJ886217
43	Dien Bien Phu**		21-23-54N 103-00-18E	UJ933673
44	Phu Tho		21-24-13N 105-12-50E	WJ223666
45	Dinh Lap		21-32-24N 107-06-25E	YJ182833
46	Qui Chau		19-33-14N 105-05-44E	WG101620
47	Chiema Hoa		22-09-16N 105-16-31E	WK284497
48	Mong Cai		21-31-22N 107-58-34E	ZJ082828
49	Ban Xom Lom		20-50-03N 105-41-09E	VJ673036
50	Phuc Yen**		21-13-41N 105-48-34E	WJ840472
51	Yen Bai		21-42-12N 104-52-25E	VJ869998
52	Ha Giang		22-48-39N 105-44-10E	VJ986224
53	Cha Pa		22-20-03N 103-50-27E	UK806701
54	Hon Dau		20-39-50N 106-49-15E	XH896858
55	My Hoa		19-08-15N 105-38-40E	WG678160
56	Van Dien		20-55-43N 105-50-56E	WJ883142
57	Dong Giap		18-24-04N 105-53-53E	WF949346
58	Hoa Lac Airfield		21-02-05N 105-29-55E	WJ518259
59	Phu Thuy		18-53-45N 105-18-36E	WF327892
60	Nhan Ly		18-05-07N 106-17-22E	XF364999
61	Van Ly		20-07-10N 105-18-26E	XH366251
62	Dai Phong		20-14-33N 105-59-32E	XJ036385
63	Kep Airfield		21-23-25N 106-16-00E	XJ313657
64	Thai Binh		20-26-20N 106-20-40E	XH392605
65	Yen Khoai		21-09-45N 105-23-20E	WJ403399
66	Dong Nuong Thou		20-33-58N 106-34-59E	XH649747
67	Cam Pha		21-01-28N 107-22-17E	YJ464265
68	Nguyet Ang		20-46-25N 106-37-01E	XH633978
69	Than Uyen		22-00-25N 103-55-27E	UK890338
70	Chan Tao		21-01-12N 105-58-28E	WJ013245
71	Phong Tho**		22-32-00N 103-22-01E	UK322925
72	Hoa Binh		20-49-28N 105-20-36E	WJ357025
73	Bi Con Thon		21-02-00N 106-44-01E	YJ802266
74	Thai Nguyen		21-35-28N 105-50-59E	WJ877878
75	Tsin Ho		22-21-22N 103-15-20E	UK204731
76	Hon Cai		20-57-09N 107-04-59E	YJ165181
77	Huu Lung		21-30-22N 106-20-42E	XJ393785
78	Tuan Giao		21-34-39N 103-30-23E	UJ454866
79	Do Son		20-43-34N 106-46-49E	XH854927
80	Qui Xa		19-52-28N 105-39-29E	WG688975
81	Phan Thon		18-42-50N 105-38-50E	WF682690
82	Kien An Airfield		20-48-10N 106-37-00E	WJ682010

*All UTM coordinates are derived from AMS Series L/014, scale 1:50,000.
**Inactive station.

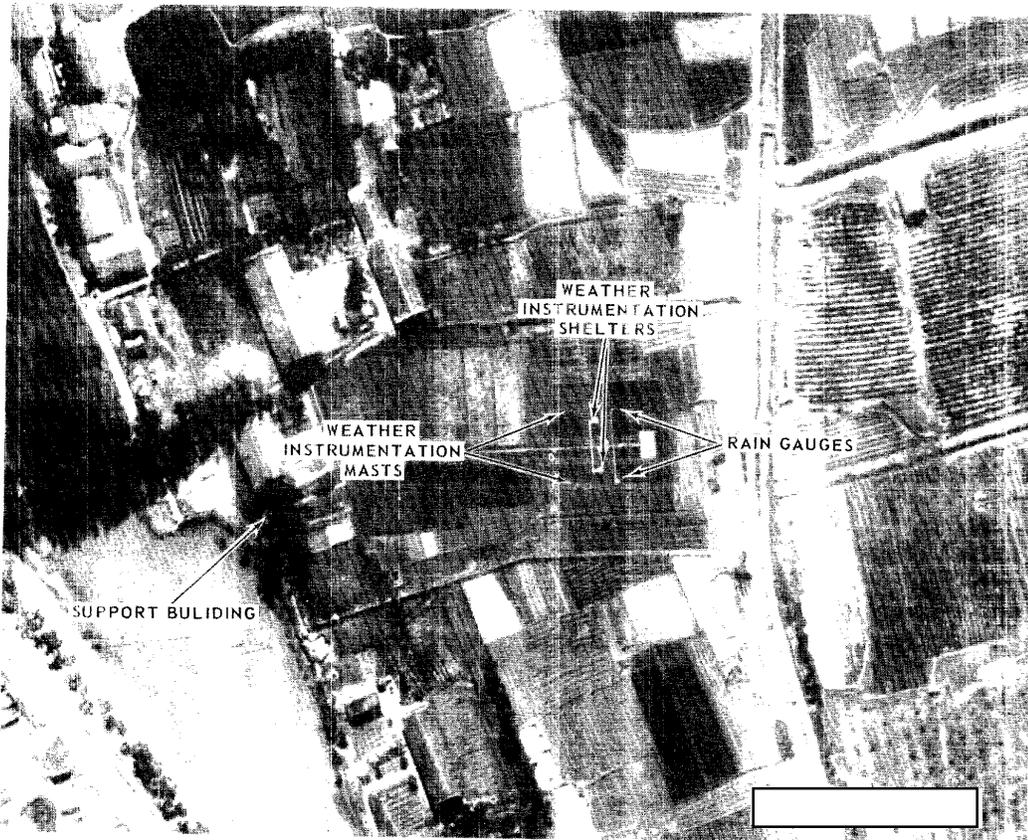
25X1



25X1C



25X1D



25X1D

B-4

SECRET

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